Class of 2019

Junior Independent Work Handbook

September 15, 2017

IMPORTANT: Further room assignments will appear on the Master Calendar on Blackboard.
This handbook describes the economics department’s junior independent work (JIW) program and includes requirements and guidelines for the preparation of a prospectus and junior paper. You are expected to be familiar with its contents. It will answer many of your questions and will help you avoid misunderstandings and complications as you prepare your paper. If you are uncertain about any aspect of the program, please contact:

Christina Lipsky, lipsky@princeton.edu
Kristen George, kgeorge@princeton.edu
Prof. Silvia Weyerbrock, sweyerbr@princeton.edu
Prof. Thomas Fujiwara, fijiwara@princeton.edu
Paul Ho, pho@princeton.edu
Your faculty advisor or JIW-AI

Undergrad Program Manager, 114 JRRB
JIW administrative help, 197 JRRB
JIW faculty director, 227 JRRB
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JIW organizer, JRRB
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PPE APPLICATION FORM AND JIW ADVISING GROUP PREFERENCE SURVEY SAMPLE IN BACK
1. Introduction

Welcome to the Department of Economics

Juniors in our department undertake a yearlong research project, with two work products to be submitted for a grade. During the fall term, students investigate a topic and write a prospectus for a research project. This prospectus will be due by midnight, Wednesday, December 13, 2017. The junior paper (JP) builds on the prospectus and is written in the spring term. The JP will be due by midnight, Wednesday, April 25, 2018.

How Junior Independent Work is structured

We think of the JP as a scaled-down version of the senior thesis. Students are expected to conduct original research and gain knowledge of the substantive topics they study. However, the JPs are significantly shorter and typically less ambitious than a senior thesis. The focus is on training students how to do research in economics in general, and how to write a senior thesis in particular.

To expose students to common tools that are essential to research in economics, the department offers a comprehensive series of lectures and workshops. Topics of lectures in the fall include (1) introduction to junior independent work (the “kick-off” meeting) and (2) literature/data sources. Moreover, there will be a senior thesis planning meeting during the May 2018 reading period. There will be workshops on four topics: (1) data sources, (2) writing in economics, (3) data management, and (4) data analysis. The class will be split into five to seven groups for each workshop. Juniors must attend all lectures and four workshops, one in each of the four topics. (Students who excelled in ECO 313, ECO 312 or ECO 302, may be exempt from the data management and data analysis workshops, if they meet the conditions laid out on pages 5 and 6).

To learn about doing research in a specific area of economics, juniors will be divided into advising groups led by a faculty advisor and supported by an AI. Students with similar interests will be grouped together and assigned to an appropriate faculty advisor. These smaller advising groups will meet periodically throughout the year to discuss specific research topics and to provide feedback on students’ progress. The faculty advisors will also meet individually with students and read and grade student assignments. During 2017/18, we will have 15 groups with 9-11 students per group.

Important logistical information and advice

- **Meeting times:** Most advising group meetings, lectures and workshops will meet on Mondays or Wednesdays, from 3:00 to 4:20 p.m. Although there will not be meetings every week, juniors MUST keep either Monday or Wednesday at this time free of other commitments during the fall semester. Grading for JIW is based in part on attendance and participation in these meetings. You will not be excused from meetings because of class conflicts. There will be no restrictions on your spring schedule.

- **Useful courses:** Undergraduate research in economics may be theoretical or empirical, but in practice most junior papers are empirical. Empirical evidence takes a variety of forms, from stylized facts, to descriptive statistics, to statistical regression analyses. Students writing empirical papers are strongly recommended to take ECO 313 (Econometric Applications), and those writing primarily theoretical papers are strongly recommended to take ECO 317 (Economics of Uncertainty) or ECO 418 (Strategy and Information). These courses convey knowledge that is even more important for senior theses, so if at all possible take them now.

- **Read the handbook:** The remainder of this handbook contains detailed information on lectures, workshops, and advising group meetings. It also includes information on the areas of expertise of the 15 faculty advisors for 2017/18, grading guidelines for JIW, a detailed calendar of meetings and deadlines, and information on the Program in Political Economy (PPE). A sample advising group request form and the PPE application form are at the end. (The actual advising group request will need to be filled online).

- **Use the Blackboard site:** The Blackboard site for JIW will contain the most up-to-date information about JIW. In addition to this handbook, the site will include announcements, times and locations of meetings, sign-up
information for workshops, materials from the lectures and workshops, and information relevant for your particular advising group. You are encouraged to check the site frequently throughout the year.

- **First events/deadlines** to watch out for (room info will be added on Master Calendar on Blackboard):

  9/18 (M) OR 9/20 (W)  Introduction to Junior Independent Work, Weyerbrock, 3-4:20 p.m., 46 McCosh
  *Attend one of the two.*

  9/25 (M)  Literature and data sources in economics, Bordelon, 3-4:20 p.m., 46 McCosh

  9/26 (T), by 4:45 pm  [Online advising group preference survey](#) due. (Please click on link to access survey and address technical questions to Kristen George (kgeorge) in 197 JRRB. A sample survey is in back of this handbook and on the JIW Blackboard site.

  10/2 (M) by 4:45 p.m.  Program in Political Economy applications due to Christina Lipsky.

  **First week of October**  First advising group meetings, 3-4:20 p.m., unless noted otherwise. Rooms TBA.

  10/2 (M)  Professor S. Brunnermeier
  Professor Dobbie, **7:30-8:50 pm**
  Professor Kowalski
  Professor Maggi
  Professor Matray
  Professor Price
  Professor Weyerbrock

  10/4 (W)  Professor Bhatt
  Professor Biasi
  Professor Boustan
  Professor Fieler
  Professor Maggi
  Professor Noonan
  Professor Rosales-Rueda
  Professor Zaidi

  10/9 (M) – 10/20 (F)  First one-on-one meeting with faculty advisor
Many advisors use the Web Appointment Scheduling System for JIW appointments at [https://wass.princeton.edu/pages/login.page.php](https://wass.princeton.edu/pages/login.page.php)
2. Class lectures and workshops

Lectures

Lecture 1 – Introduction to independent work in economics (S. Weyerbrock)

This meeting introduces juniors to the economics department and JIW. Professor Weyerbrock will discuss requirements and organizational matters. Using concrete examples, she will discuss characteristics of good prospecti and JP’s in economics, most importantly; the choice of an interesting and feasible research question. Professor Weyerbrock will also briefly talk about research strategies, the typical structure of an economics paper, and she will address IRB (human subjects) issues.

Note: As almost all juniors pursue empirical projects, Professor Weyerbrock’s lecture will focus on empirical work. If there is sufficient interest, Prof. Weyerbrock will try to organize an optional meeting for students interested in theory.

Monday, September 18 or Wednesday, September 20, 3:00 to 4:20 p.m, 46 McCosh. Attend one of the two.

Lecture 2 – Literature and data sources in economics (B. Bordelon)

Bobray Bordelon, Princeton University’s Economics, Finance and Data Librarian, will teach students how to do literature searches in economics. He will also introduce students to data sources in economics and finance and and give a general overview of Princeton’s data holdings. Awareness of the latter is important because it determines the feasibility of your research question.

Monday, September 25, 3:00 to 4:20 p.m., 46 McCosh.

Lecture 3 – Planning for the senior thesis (S. Weyerbrock/B. Bordelon)

This meeting will cover planning for the senior thesis. Topics will include choice of a topic, applying for funding, and finding an advisor. Bobray Bordelon will discuss data issues for senior theses.

First week of May TBD, 3:00-4:20 p.m.

Attendance requirement: All students are expected to attend lectures 1, 2 and 3.

Workshops

Workshop series 1 – Data sources

Bobray Bordelon, Economics and Finance Librarian/Data Services Librarian, bordelon@princeton.edu
Barbara (Bobbi) Coffey, Finance Research Librarian, bcoffey@princeton.edu
Ashley Faulkner, Interdisciplinary Quantitative Research Librarian, ashleyf@princeton.edu
Stacy Nemeroff, Labor Librarian, stacyn@princeton.edu

Subject librarians will survey data sources and Princeton’s holdings of various types of data.

1. Health, Crime and Other Socioeconomic Data (Bobray Bordelon)

Micro-level data are necessary to examine why an individual makes specific choices. Bordelon will discuss micro-level data for the economic study of areas such as health, crime, art and culture, elections, and social attitudes.
Monday, October 9, 3:00-4:20 p.m.

2. Environmental Data (Ashley Faulkner)

Faulkner will go over environmental data sources and Princeton’s holdings of such data.

Monday, October 9, 3:00-4:20 pm

3. Labor and Education Data (Stacy Nemeroff)

Micro-level data for the economic study of labor and education areas will be discussed.

Wednesday, October 11, 3:00-4:20 p.m.

4. Financial Data (Bobbi Coffey)

Coffey will discuss sources of data for studying financial instruments and markets. She will discuss Princeton’s holdings, which are stellar in many areas of finance but limited in others.

Wednesday, October 11, 3:00-4:20 p.m.

5. Macroeconomics and Trade Data (Bobray Bordelon)

Almost all statistical analysis makes use of some macroeconomic data. Bordelon will discuss sources for domestic and international macroeconomic data and trade data. This workshop is useful for students studying macroeconomic indicators, trade, monetary policy, fiscal policy, development, and political economy.

Monday, October 16, 3:00-4:20 p.m.

Students attend at least ONE data sources workshop of their choice. Attendance at multiple workshops is encouraged. The info provided is also crucial for your senior theses.

Workshop series 2 – Writing an economics prospectus

Dr. Judy Swan, Associate Director, Writing Program, iswan@princeton.edu
Elisa Jacome, ejacome@princeton.edu

We will offer seven identical workshops aiming to teach students how to present and discuss information in economics. Topics include how to structure a prospectus, how to introduce a research question, how to present the relevant literature, etc. The workshop will draw on samples of economics prospectuses submitted in prior years.

Monday, November 6, 3-4:20 p.m., 271 Louis A. Simpson Building
Advising groups of Professors Maggi (Monday group) and Weyerbrock

Monday, November 6, 7:30-8:50 p.m., 271 Louis A. Simpson Building
Advising groups of Professors Bhatt and Zaidi

Wednesday, November 8, 3-4:20 p.m., 271 Louis A. Simpson Building
Advising groups of Professors Biasi and Boustan

Monday, November 13, 3-4:20 p.m., 198 JRRB
Advising groups of Professors Dobbie, Matray and Price

Monday, November 13, 3-4:20 p.m., 271 Louis A. Simpson Building
Advising groups of Professors Brunnermeier and Kowalski

Wednesday, November 15, 3-4:20 p.m., 271 Louis A. Simpson Building
Advising groups of Professors Fieler and Maggi (Wednesday group)

Wednesday, November 15, 3-4:20 p.m., 397 JRRB
Advising groups of Professors Noonan and Rosales-Rueda

Attendance: Students attend one workshop with their advising group. Students assigned to even evening workshops with a conflict: please e-mail Paul Ho (pho@princeton.edu) for placement into an afternoon workshop.

Workshop series 3 – Data management in Stata

Paul Ho (pho@princeton.edu)

We will offer seven identical hands-on workshops designed to teach data management in Stata. These workshops will cover topics such as how to pull data into Stata and how to use basic data manipulation commands (i.e., recording variables, creating new variables, etc.). The workshops will be held in a computer lab, very likely in Friend Center. Please your own laptop, especially if it is running Stata.

Monday, November 6, 3-4:20 p.m.
Advising groups of Professors Dobbie, Matray, and Price

Wednesday, November 8, 3-4:20 p.m.
Advising groups of Professors Noonan and Rosales-Rueda

Wednesday, November 8, 7:30-8:50 p.m.
Advising groups of Professors Fieler and Maggi (Wednesday group)

Monday, November 13, 3-4:20 p.m.
Advising groups of Professors Maggi (Monday group) and Weyerbrock

Monday, November 13, 7:30-8:50 p.m.
Advising groups of Professors Biasi and Boustan

Wednesday, November 15, 3-4:20 p.m.
Advising groups of Professors Bhatt and Zaidi

Wednesday, November 15, 7:30-8:50 p.m.
Advising groups of Professors Brunnermeier and Kowalski

Attendance: Students attend one workshop with their advising group. Students assigned to evening workshops with a conflict: please e-mail Paul Ho (pho@princeton.edu) for placement into an afternoon workshop.

Exemption from attendance: Juniors that completed ECO 313 (with a passing grade) or ECO 312 (with a grade of A- or higher) before their junior year do not need to attend this workshop.

Workshop series 4 – Data analysis in Stata

Elisa Jacome, ejacome@princeton.edu

These workshops will teach data analysis in Stata. They will cover basic Stata analysis commands such as summarize, tabulate, and regress and also elements of “best practices” in analyzing data (treatment of missing values, sample selection, etc.). This set of workshops will be split into two types: time-series and cross-sectional/panel-data analysis. They will be taught on Mondays and Wednesdays from 3-4:20 pm and 7:30-8:20 pm during the second and third week of spring.
1. Cross-section and panel-data analysis, M/W, week of February 12, 2018
2. Time-series analysis, M/W, week of February 19, 2018

Attendance requirement: Juniors need to attend one workshop of their choice. In January students can sign up for one workshop in WASS (net-ID: ecojiw): https://wass.princeton.edu/pages/login.page.php
Exemption from attendance: Juniors that completed ECO 313 (with a passing grade), ECO 312 (with a grade of A- or higher) and ECO 302 (with a grade of A and higher) before their junior spring do not need to attend this workshop.

**PU Library workshops – Citing sources (attendance optional)**

Princeton University Library offers workshops on citing sources using bibliographic managers such as Zotero, EndNote and RefWorks. These programs interact with Microsoft Office or LaTex to automatically format your references and create footnotes, endnotes, and bibliographies in any citation style you choose. You may register at http://library.princeton.edu/help/citation-tools.
3. Advising groups and meetings

All juniors will be assigned to an advising group led by a faculty member in Economics and supported by an AI. Faculty members will usually advise on projects close to their larger area of research interests. There will be fifteen advising groups in 2017/18, with roughly 9 to 11 students in each.

Requesting an advising group

After reviewing the list of faculty advisors and their research interests, fill out the online JIW advising group preference survey no later than 4:45 p.m., Tuesday, September 26, 2017. The survey will be available in September. Any technical questions on accessing the survey should be addressed to Kristen George, kgeorge@princeton.edu, in 197 Julis Romo Rabinowitz Building. A sample of this survey is included on the very last page of this handbook. Please give your preference for an advising group by indicating your top six choices. If you have a conflict on Mondays or Wednesdays make sure to only list advising groups meeting on the day that you are available. There is space on this form to indicate your areas of research interest and to indicate your proposed JP topic (as best as you can at this stage). Do not worry if you do not have a topic yet. The great majority of students will not have a specific research question at the start of the fall term. Instead, be as specific as you can be about your research ideas.

Sometimes, juniors with specific research interests approach one of the 15 faculty advisors before the September 26 deadline regarding participation in their group. If a faculty member agrees to take you on, please ask him/her to E-mail to Kristen George, kgeorge@princeton.edu, confirming the match before the deadline. These agreements can only be honored if we learn about them before undertaking the matching process.

Please note that we need to receive your advising group survey in order to place you into an advising group. Students, who complete this survey late, are less likely to receive preferred advisors.

Advising group assignments will be made by Professor Weyerbrock and will be posted on Friday, September 29 (late in the day), or Saturday, September 30, on Blackboard. The first advising group meetings will take place during the third week of classes; on Monday, October 2, or Wednesday, October 4. You should schedule a first one-on-one meeting with your advisor no later than October 20, 2017.

We make every effort to match you with your most-preferred advisor/advising group. However, given the distribution of students’ research interests relative to those of the faculty advisors, students cannot expect to be placed in one of their top choices. We will do the best we can, given the constraints. All faculty members advising JPs can guide you through the process of writing a JP with sound economic reasoning. You are encouraged to seek out the advice of other faculty members, especially those with expertise in your area of interest, but your advisor alone is responsible for grading. As such, it is important for you to review grading criteria with your advisor.

Sometimes, fortunately quite rarely, your advisor is a total mismatch. If this happens, don’t panic. Talk to Professor Weyerbrock, who will try to make alternative or supplementary arrangements to help you. The deadline for any advising group changes is November 7, 2017. Please let Professor Weyerbrock know about any concerns regarding your advising group/advisor/AI throughout the year.

Advising-group meetings

Each junior will attend three advising group meetings throughout the year, two during the fall and one during the spring. Advising group meetings will provide opportunities for students to interact and learn from their faculty advisors and from each other. The vast majority of fall advising group meetings will take place on either Mondays or Wednesdays from 3-4:20 pm. However, once advising groups are formed, groups may change to meeting times that are better for the faculty advisor and group members. Meetings in the spring will be arranged by the AIs.
Advising group meeting 1 – Discussion of topic areas

Students will meet their faculty advisor and AI to discuss specific topics in their area of interest, with a focus on which topics are feasible and which are not. Students may be given a reading list of useful review articles that can help them identify specific topics or they may discuss a successful and an unsuccessful prospectus. The advisor may also clarify his or her expectations regarding the outline, prospectus, and JP.

Monday, October 2, 3-4:20 p.m.  
Professor S. Brunnermeier  
Professor Dobbie (7:30-8:50 pm)  
Professor Kowalski  
Professor Maggi  
Professor Matray  
Professor Price  
Professor Weyerbrock

Wednesday, October 4, 3-4:20 p.m.  
Professor Bhatt  
Professor Biasi  
Professor Boustan  
Professor Fieler  
Professor Maggi  
Professor Noonan  
Professor Rosales-Rueda  
Professor Zaidi

Advising group meeting 2 – Discussion of the research prospectus

Students will meet with their advising groups to discuss the research prospectus. Students may be asked to present their draft prospectus and/or to respond to comments they received on their draft. They will receive feedback from the group and instructors.

Monday, December 4, 3-4:20 p.m.  
Professor Brunnermeier  
Professor Dobbie  
Professor Kowalski  
Professor Maggi  
Professor Matray  
Professor Price  
Professor Weyerbrock

Wednesday, December 6, 3-4:20 p.m.  
Professor Bhatt  
Professor Biasi  
Professor Boustan  
Professor Fieler  
Professor Maggi  
Professor Noonan  
Professor Rosales-Rueda  
Professor Zaidi

Advisors may choose to hold this second meeting one week earlier. The final date will be discussed with the group.

Advising group meeting 3 – Discussion of junior paper

Students will meet with their advising groups to discuss their progress on their junior paper. Advisors will usually ask students to present their JP draft. To allow for more in-depth feedback, each advising group will be divided
into three small groups. Meetings will take place between the 5th and 7th week of spring. AIs will coordinate with students to find appropriate times.

Attendance: Students are required to attend the two fall meetings and one (assigned) spring meeting. (Please note that the JIW grade includes an attendance and participation component. Missing an advising group meeting may negatively impact attendance and participation grades.

One-on-one meetings

In addition to group meetings, students and their faculty advisor are expected to meet individually at least four times throughout the year. In a first meeting (during the fourth or fifth week of the fall term) advisor and advisee discuss possible topics and appropriate research strategies. In a second meeting (during the seventh to ninth week of the term) faculty advisor will give feedback on the students’ outline and bibliography. During a third meeting at the start of the spring semester, the graded prospectus and next steps can be discussed. A final one-on-one meeting, to take place during the seventh to tenth week, may deal with questions regarding the completion of the final paper. Each group has an AI. AIs are also available for meetings throughout the academic year.

Please note that you can sign up for JIW-related appointments with most advisors on WASS.
https://wass.princeton.edu/pages/login.page.php
4. Faculty Advisors and AIs

Faculty advisors and their research interests

_Swati Bhatt_  
*sbhatt@princeton.edu*, office: 202B Julis Romo Rabinowitz Bldg

**Areas of specialization:** Economics of Digitization, Industrial Organization, Finance, Applied Micro

**Teaching:** Economics of the Internet, Connection and Communication in the Digital Bazar, Industrial Organization, Intermediate Microeconomics

Professor Bhatt’s research centers on the economics of digitization, industrial organization with a focus on the technology industry, and finance. Her recent book, _How Digital Communication Technology Shapes Markets_, explores how digital technology has affected the functioning of markets. Bhatt has advised hundreds of juniors and seniors; and was Director of Student Programs at the Bendheim Center for Finance from 2000-2007. She received her Ph.D. in economics from Princeton.

_Barbara Biasi_  
*bbiasi@princeton.edu*, office: 266 Luis A. Simpson Building

**Areas of specialization:** Labor economics, Public economics, Economics of Education

**TA:** Empirical Methods in Public Policy, Economics of Education; Economic Policy, Economics of Innovation

Professor Biasi is a labor and public economist broadly interested in education, inequality, and creativity. Her recent works have covered topics related to teachers’ labor markets, school finance equalization, knowledge diffusion, and the links between mental health and creativity. She holds a Ph.D. in economics from Stanford University.

_Leah Boustan_  
*lboustan@princeton.edu*, office: 256 Louis A. Simpson Building

**Areas of specialization:** Economic History, Labor Economics, Urban Economics

**Teaching:** Development of Economic Institutions in the U.S., The American Century, Labor Economics

Professor Boustan’s interests lie at the intersection between economic history, labor economics and urban economics. Her research focuses on the Great Black Migration from the rural south during and after World War II and the mass migration from Europe to the United States in the late 19th and early 20th centuries. Her recent book, _Competition in the Promised Land_, examines the long-lasting effects of the Great Black Migration on labor markets and urban space in receiving cities. Boustan received her Ph.D. from Harvard and was an economics major at Princeton.

_Smita Brunnermeier_  
*smita@princeton.edu*, office: 228 Julis Romo Rabinowitz Building

**Areas of specialization:** Environmental Economics, Applied Microeconomics

**Teaching:** Environmental Economics, Issues in Environmental & Natural Resource Economics, Intermediate Microeconomics, Environment and Development

Professor Brunnermeier’s research covers topics in environmental economics. She has studied the costs and benefits of regulating hazardous air pollutants, the effects of regulation on technological innovation, the pollution havens hypothesis, carbon leakage, voluntary environmental programs, and the links between corporate environmental and financial performance. Her PhD is from Vanderbilt University.

_Will Dobbie_  
*wdobie@princeton.edu*, office: 257 Louis A. Simpson Building

**Areas of specialization:** Labor Economics, Household Finance, Economics of Education

**Teaching:** Labor Economics, Domestic Policy Analysis
Professor Dobbie’s research focuses on labor economics, household finance, and the economics of education. His work examines the impact of high-quality schools on non-test score outcomes, the impact of debt relief on disadvantaged families, and the effect of the money bail system on poor defendants. Dobbie has also done research on the characteristics of successful schools, the impact of Teach For America on corps members, and consumer bankruptcy and financial health. He received his Ph.D. in public policy from Harvard.

**Cecilia Fieler**
afieler@princeton.edu, office: 276 Julis Romo Rabinowitz Bldg

**Areas of specialization:** International Trade, Development Economics
**Teaching:** International Trade, International Finance, International Economics, Math for Economists

Professor Fieler researches international trade, with focus on developing countries. Her research highlights systematic differences in the demand and supply of goods between rich and poor countries, advanced and backward firms. It shows that modifying standard models of trade to account for these differences matters for bilateral trade flows, gains from trade, demand for skilled workers, and technology adoption. Professor Fieler received a Ph.D. in economics from NYU.

**Amanda Kowalski**
amanda.kowalski@princeton.edu, office: 185B JRRB

**Areas of specialization:** Health, Public Finance, Econometrics
**Teaching:** Public Finance, Health Economics and Policy, Economics of Health and Healthcare, Empirical Economics

Professor Kowalski is a health economist who combines theory, data and econometric techniques to examine the impacts of health insurance and health spending. She has explored the impact of insurance expansions on emergency room utilization, the early impact of the Affordable Care Act, and the long-term impact of Medicaid on children, among other topics. Professor Kowalski holds a Ph.D. in economics from MIT.

**Andrés Maggi**
amaggi@princeton.edu, office: 229 Julis Romo Rabinowitz Bldg

**Areas of specialization:** International Trade, Economic Geography
**Teaching:** Urban Economics

Professor Maggi’s research interests lie in the intersection of international trade, economic geography, labor economics, and development economics. Most of his recent research studies the impact of international trade shocks on local economic activity. For instance, he studied the welfare effect of China’s productivity growth on the Brazilian economy, and the associated reallocation of economic activity across sectors and regions within the country. He is now examining the implications of both interregional and international trade in terms of welfare and the distribution of economic activity within countries. Maggi is a Ph.D. Candidate in Economics at Princeton University.

**Adrien Matray**
amatray@princeton.edu, office: 207 Julis Romo Rabinowitz Bldg

**Areas of specialization:** Corporate Finance, Entrepreneurship, Innovation, Behavioral Finance
**Teaching:** Corporate Finance; Entrepreneurship, Innovation and Venture Capital; Financial Risk Management

Professor Matray’s interests include entrepreneurship, innovation and access to banking services for low-income households. He has done research on the real effects of lending relationships on innovative firms and inventor mobility and on the effect of the whether R&D-intensive firms are more resilient to trade shocks, in particular increased competition from Chinese imports. His current work on the topics involves understanding the frictions affecting entrepreneurship, SME growth and technology adoption and how new technologies affect SME productivity, employment and income growth. These studies are conducted both in developed countries and in developing countries (India and Brazil). Matray holds a Ph.D. in finance from HEC Paris and has previously been a Consultant for the French Ministry of Economic and Finance and for the World Bank.
**Kelly Noonan**  
knoonan@princeton.edu, office: 222 Julis Romo Rabinowitz Bldg

**Areas of Specialization:** Health Economics, Family Economics  
**Teaching:** Introduction to Microeconomics, Intermediate Microeconomics, Introduction to Macroeconomics

Professor Noonan’s research focuses on the impact of maternal and child health on family resources and the economics of the family. She is particularly interested in child-policy issues. Noonan has explored the effects of maternal depression on, among others, family food insecurity and family homelessness and the impact of the 2008-11 crisis in Iceland on health behaviors. Noonan holds a Ph.D. in economics from SUNY Stony Brook.

**David Price**  
djprice@princeton.edu, office: 267 Louis A. Simpson Building

**Areas of Specialization:** Labor Economics, Public Economics  
**TA:** Public Finance and Fiscal Policy, Modern Firm in Theory and Practice

Professor Price's research centers on public economics and labor economics, with a focus on poverty and inequality. He has investigated the long-term effect of cash assistance for beneficiaries and their children by following up on a U.S. cash assistance experiment from the 1970s. He has also studied the contributions of firms to the rise in earnings inequality in the U.S. since the 1970s and housing programs in the U.S. Price received his Ph.D. in economics from Stanford University.

**Maria Rosales-Rueda**  
mrosales@princeton.edu, office: 122 Julis Romo Rabinowitz Bldg

**Areas of Specialization:** Labor Economics/Human Capital, Health Economics, Development Economics, Program Evaluation  
**Teaching:** Health Economics, Statistics for Education Research, Educational, Social and Behavioral Statistics

Professor Rosales-Rueda studies the roles of environmental influences, family investments and social interventions on human capital formation and on inequalities in health, education, and labor outcomes in developed and developing countries. Recent research explores the effects of early-life influences on the development of children’s human capital in Ecuador and Indonesia. Rosales-Rueda has also examined the long-term effects of early-childhood interventions in the US. She received her Ph.D. in public policy from the University of Chicago.

**Silvia Weyerbrock**  
sweyerbr@princeton.edu, office: 227 Julis Romo Rabinowitz Bldg

**Areas of Specialization:** International Economics, Economics of Food and Agriculture  
**Teaching:** Economics of Europe, International Trade, Economics of Food and Agriculture, International Economics

Professor Weyerbrock’s research largely focuses on applied trade policy analysis. She has studied the labor market effects of East-West migration in Europe, reform of the European Union’s Common Agricultural Policy, and the trade and budgetary implications of EU enlargements. Weyerbrock has also worked on multilateral trade liberalization and nontariff barriers. Her Ph.D. in agricultural and resource economics is from UC Berkeley. She is the JIW faculty director during 2017/18.

**Iqbal Zaidi**  
izaidi@princeton.edu, office: A26 Julis Romo Rabinowitz Bldg

**Areas of specialization:** Macroeconomics, International Economics, Financial Economics, Applied Econometrics  
**Teaching:** Macroeconomics, International Monetary Economics, Applied Econometrics

Professor Zaidi's research covers macroeconomics and financial economics, with a particular focus on econometric estimation of policy-oriented models. He has studied fiscal and monetary policy, structural adjustment in developing countries, financial markets, and financial regulation. Zaidi worked 25+ years in senior positions at the International Monetary Fund before coming to Princeton. He holds a Ph.D. in economics from Princeton University.
JIW Faculty Director

**Silvia Weyerbrock**

sweyerbr@princeton.edu, office: 227 Julis Romo Rabinowitz Building

OH: [https://wass.princeton.edu/pages/login.page.php](https://wass.princeton.edu/pages/login.page.php)

JIW Organizer

**Paul Ho**

pho@princeton.edu

Paul Ho coordinates JIW organizational matters; please contact him regarding attendance-related matters. He also serves as the AI for the Wednesday advising group of Professor Maggi.

JIW Assistant Instructors (AIs)

AIs will support one or two advising groups. AIs will attend, participate, and take attendance in all group meetings. They will manage the Blackboard site for their groups and comment on the outline/bibliography, draft prospectus, and draft paper. They will also hold regular office hours.

The table below matches faculty members and AIs. It also includes info on the research interests of the AIs.

<table>
<thead>
<tr>
<th>AI</th>
<th>JIW group/Advising day</th>
<th>Background</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bruno Baranek</td>
<td>Rosales-Rueda (W)</td>
<td>IO, labor, applied micro</td>
</tr>
<tr>
<td>Stefano Baratuche</td>
<td>Maggi (M)</td>
<td>Theory, IO, macro, international macro</td>
</tr>
<tr>
<td>Jonathan Gao</td>
<td>Matray (M)</td>
<td>Public finance, applied micro, labor</td>
</tr>
<tr>
<td>Paul Ho</td>
<td>Maggi (W)</td>
<td>Macroeconomics, econometrics</td>
</tr>
<tr>
<td>Elisa Jacome</td>
<td>Boustan (W)</td>
<td>Labor, public finance</td>
</tr>
<tr>
<td>Sergii Kiiashko</td>
<td>Zaidi (W preliminary)</td>
<td></td>
</tr>
<tr>
<td>Simon Quach</td>
<td>Price (M)</td>
<td>Labor, public finance</td>
</tr>
<tr>
<td>Pellumb Reshidi</td>
<td>Noonan (W)</td>
<td></td>
</tr>
<tr>
<td>Vivek Sampathkimar</td>
<td>Kowalski (M)</td>
<td>Applied micro, labor, environment</td>
</tr>
<tr>
<td>Simon Schmickler</td>
<td>Dobbie (M)</td>
<td>Finance, IO, labor</td>
</tr>
<tr>
<td>Fernanda Sobrino</td>
<td>Bhatt (W)</td>
<td>IO</td>
</tr>
<tr>
<td>Alex Wise</td>
<td>Weyerbrock (M)</td>
<td>Trade, international macro, development</td>
</tr>
<tr>
<td>Ben Young</td>
<td>S. Brunnermeier (M)</td>
<td>Behavioral economics/theory, applied micro, finance</td>
</tr>
</tbody>
</table>
5. Important submission deadlines

09/26 (M) by 4:45 p.m.  Online advising group preference survey due. Questions to Kristen George, 197 JRRB.

10/2 (M) by 4:45 p.m.  Political Economy application form due to Christina Lipsky, 114 JRRB.

10/20 (F) by 11:59 p.m.  Outline/bibliography
Students should submit a two-page synopsis of their JP. The bibliography should include at least five references.

11/21 (Tu) by 11:59 p.m.  Draft prospectus

12/13 (W) by 11:59 p.m.  Prospectus
Grades and comments will be available from Kristen in 197 JRRB around Dean’s Date after submission of online mid-year JIW evaluation. Kristen will E-mail students as comments/grades become available.

03/30 (W) by 11:59 p.m.  Draft paper

04/25 (W) by 11:59 p.m.  Final JP
Grades and comments will be available from Kristen in 197 JRRB around Dean’s Date upon submission of online final JIW evaluation. Kristen will E-mail students as comments/grades become available.
(Note: The JP grade is not your overall JIW grade. Please see the section on grading to learn how we calculate the JIW grade).

5/18 (F) by 11:59 p.m.  Senior thesis proposal form due.

All materials (except for the advising group preference survey and evaluations) need to be submitted on Blackboard under assignments by midnight of the due date. Label your file with your last and first name and the last name of your advisor. Please submit the prospectus and JP in PDF format. Make sure your PDF file is not corrupted or otherwise unreadable.
6. JIW Schedule Class of 2019
Please consult Master Calendar on Blackboard (for further room info and updates throughout the year).
This version reflects information available as of 09/15/2017.

Attendance in all class lectures and advising group meetings is mandatory. In addition, students must attend one workshop each on (1) data sources (please choose most appropriate topic area), (2) writing, (3) data management, and (4) data analysis. Students that excelled in econometrics might be exempt from the data management and data analysis workshops. See below for details.

<table>
<thead>
<tr>
<th>Week</th>
<th>Assignments</th>
<th>Class meetings and workshops</th>
<th>Group and advisor meetings and advisor activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Class lecture: Introduction to JIW&lt;br&gt;Students attend ONE of two meetings.&lt;br&gt;S. Weyerbrock, 9/18 (M), 3-4:20 pm&lt;br&gt;S. Weyerbrock, 9/20 (W), 3-4:20 pm&lt;br&gt;46 McCosh</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Advising group request form due online by 9/26 (Tu). Questions to Kristen George, <a href="mailto:kgeorge@princeton.edu">kgeorge@princeton.edu</a>, 197 JRRB. Assignments posted on 9/29 or 9/30.&lt;br&gt;PE applications due by 10/2 (M) to Christina in 114 JRRB</td>
<td>Class lecture: Literature and data in economics,&lt;br&gt;B. Bordelon, 9/25 (M), 3-4:20 pm&lt;br&gt;46 McCosh</td>
<td>Advising group meeting: Discussion of research area,&lt;br&gt;10/2 (M), 3-4:20 pm&lt;br&gt;Brunnermeier, Kowalski, Maggi, Matray, Price Weyerbrock&lt;br&gt;10/2 (M), 7:30-8:50 pm&lt;br&gt;Dobbie&lt;br&gt;10/4 (W), 3-4:20 pm&lt;br&gt;Bhatt, Biasi, Boustan, Fieler, Maggi, Noonan, Rosales-Rueda, Zaidi</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Data sources workshops, 3-4:20 pm&lt;br&gt;Students attend at least ONE data sources workshop of their choice.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Health, crime, and other socioeconomic date (Bordelon), 10/9 (M)&lt;br&gt;Environmental data (Faulkner), 10/9 (M)&lt;br&gt;Labor and education micro data (Nemeroff), 10/11 (W)&lt;br&gt;Finance data (Coffey), 10/11 (W)&lt;br&gt;Macroeconomics and trade data (Bordelon), 10/16 (M)</td>
<td>Week 4-5 (10/9-20):&lt;br&gt;One-on-one meetings with students.</td>
</tr>
<tr>
<td>5</td>
<td>Outline/bibliography due on 10/20 (F)</td>
<td></td>
<td>Review/approve outlines/bibliographies.</td>
</tr>
<tr>
<td>6</td>
<td>Outline/bibliography returned on 10/27 (F).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week</td>
<td>Assignments</td>
<td>Class meetings and workshops</td>
<td>Group and advisor meetings and advisor activities</td>
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<tr>
<td></td>
<td></td>
<td>Writing workshops, J. Swan/E. Jacome, 3-4:20 pm, except where indicated</td>
<td></td>
</tr>
<tr>
<td>7-9</td>
<td>Draft prospectus due on 11/21 (Tu)</td>
<td>Students attend workshop with group. 11/6 (M), Maggi (M) and Weyerbrock, 271 Simpson 11/6 (M), 7:30-8:50 pm, Bhatt and Zaidi, 271 Simpson 11/8 (W), Biasi and Boustan, 271 Simpson 11/13 (M), Dobbie, Matray and Price, 198 JRRB 11/13 (M), Brunnermeier and Kowalski, 271 Simpson 11/15 (W), Fieler and Maggi (W), 271 Simpson 11/15 (W), Noonan and Rosales-Rueda, 397 JRRB Data management workshops, P. Ho, 3-4:20 pm, except where indicated. Students attend one workshop with their group.</td>
<td>Week 7-9 (11/6-21): One-on-one meetings with students.</td>
</tr>
<tr>
<td>10</td>
<td>Draft prospectus returned to students on 11/30 (Tb).</td>
<td>Review AI’s comments on drafts.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>Advising group meeting: Student presentations, 3-4:20 pm 12/4 (M) Brunnermeier, Dobbie, Kowalski, Maggi, Matray, Price, Weyerbrock 12/6 (W): Bhatt, Biasi, Boustan, Fieler, Maggi, Noonan, Rosales-Rueda, Zaidi</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Prospectus due at 11:59 p.m. on 12/13 (W) on Blackboard</td>
<td>Grade/comment on the prospectus.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Fall term—Reading period</td>
<td></td>
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<tr>
<td></td>
<td>Graded prospectus available around Dean’s Date</td>
<td>Grade/comment on the prospectus.</td>
<td></td>
</tr>
<tr>
<td>Week</td>
<td>Assignments</td>
<td>Class meetings and workshops</td>
<td>Group and advisor meetings and advisor activities</td>
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<tr>
<td></td>
<td></td>
<td><strong>Spring term—first six week: Analysis and writing</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td><strong>Data analysis workshops</strong>, E. Jacome (a) Cross-section/panel data (b) Time-series data Weeks 2-3: M/W, 3:40 pm or 7:30-8:50 pm</td>
<td>Weeks 1-2 (2/5-2/16): One-on-one meetings with students to discuss prospectus and next steps.</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Students sign up for one (out of six) sessions on WASS, net-id: ecojw, name: JIW in January. Students that completed ECO 313 with a passing grade, ECO 312 with A- or better or ECO 302 with A or better are exempt.</td>
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<td>3</td>
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<td>4</td>
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<td>5</td>
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<td>6</td>
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<tr>
<td></td>
<td></td>
<td><strong>Spring term—second six weeks: Finalizing the JP/senior thesis planning</strong></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Draft JP due 3/30 (F)</td>
<td></td>
<td>Week 7-10 (3/26-4/20): One-on-one meetings to discuss progress on final JP. Week 8: Review AI’s comments on drafts.</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Draft JP returned on 4/9 (M)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td><strong>Final JP due on 4/25 (W) by 11:59 p.m. on Blackboard</strong></td>
<td></td>
<td>Weeks 11-12: Grade/comment on JP. Extra office hours for students wishing to discuss senior thesis plans.</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Spring term – Reading period</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Graded JPs available around Dean’s Date.</td>
<td>Senior thesis planning meeting, Weyerbrock/Bordelon, 5/7 (M) or 5/9 (W)</td>
</tr>
</tbody>
</table>

Graded work and comments will be available from Kristen George in 197 JRRB. Kristen will E-mail groups as the information becomes available. Overall JIW grades will appear on Tigerhub at the end of May.
7. Grading

On your transcript, you will receive a single JIW grade, which will be based on the prospectus, the junior paper, and attendance and participation in lectures, workshops, and advising group meetings.

The prospectus

Criteria for Grading

The prospectus can be thought of as falling above, below, or on an imaginary line in the grading scale. In general, prospectuses that meet the top five of our criteria will receive grades above the line (A+, A, or A-). Those that don’t meet these five criteria will receive grades below the line (regardless of how well they fulfill the other criteria). See the following page for a detailed grading rubric.

1. Innovation. Demonstration of insight and independence of thought or approach, whether in terms of the question or problem posed, the methodology specified, or (for empirical projects) the data to be analyzed.

2. Question or Problem. A well-defined question or problem that requires economic analysis and that’s motivated (in terms of the economics/finance literature and/or the proposed methodology), feasible (in terms of the available data for empirical projects, and the mathematical and computational methods for theoretical projects), and presented explicitly and early in the document.

3. Methodology. A well-developed and appropriate methodology (an empirical approach or a theoretical modeling strategy) that can informatively address the question or problem. For empirical projects, this means (1) a clear statement of the hypothesis or hypotheses to be tested, and (2) the identification and justification of the statistical and econometric technique to be used (for example, linear or probit regression analysis). For theoretical projects, this means (1) a tentative but essentially complete statement of the structure of the model, (2) a clear statement of the solution methods that will be used (for example, closed-form analytical or numerical solutions), (3) preferably, some preliminary results, and (4) a statement of ways in which the model will be developed and refined in the following semester.

4. Data. For empirical projects, well-chosen data that are appropriate to the question or problem and are readily available.

5. Structure. A visible, easy-to-follow structure consistent with the conventions of economics.

6. Literature Review. The situating of the question or problem in the literature—not an attempt to exhaustively cite the literature but rather to establish a link between the question/problem and the existing literature in economics/finance.

7. Expected or Preliminary Results. This should include (1) discussion of the outcomes, or results, that the author anticipates, (2) a brief explanation of the reasons for the expectation, whether economic intuition or the findings of related previous research, and (3) the discussion of possible pitfalls and thoughts about further research.

8. Style. Lucid, informative, readable sentences; well-defined key terms and concepts; appropriate gauging of readers’ knowledge; presentation of sufficient context; clear and concise writing.

9. Source citations. The proper and consistent use of a citation style found in the economics/finance literature—for example, the APA style or the style used in the American Economic Review.
Grading Rubric

A+  An A+ prospectus meets all of the criteria and could lead to a publishable paper in an Economics or Finance journal.

A range  A prospectus in the A range fully meets the top five criteria and is competent with respect to the other four.

B range  A prospectus in the B range is problematic in terms of any of the top five criteria (e.g., has a well-defined question/problem but a poorly rationalized methodology or an imprecise question/problem but a well-chosen data set and promising methodology) and is competent with respect to the other four.

C range  A prospectus in the C range is faulty in terms of any of the top five criteria and may be less than competent with respect to the other four.

D  A D prospectus is deficient in most of the criteria and adds nothing to one’s understanding of the subject beyond what might be gleaned from superficial reading in the area. Even a D prospectus, however, must demonstrate that the writer has some knowledge and understanding of the economic issues.

F  An F prospectus is similar to a D prospectus but is less than half the expected length and/or fails to bring economic tools to bear on the problem.

The expected length of a junior prospectus is ten pages (excluding the bibliography).

The paper

Criteria for Grading

A junior paper (JP) or senior thesis can be thought of as falling above, below, or on an imaginary line in the grading scale. In general, independent work that meets the top 4 criteria below will receive grades above the line (A+, A, or A-). Those that don’t meet these 4 criteria will receive grades below the line (regardless of how well they fulfill the other criteria). See the next page for a detailed grading rubric.

1. Innovation. Demonstration of insight and independence of thought or approach, whether in terms of the question or problem posed, the methodology specified, or the results.

2. Question or Problem. A well-defined question or problem that requires economic analysis and that is motivated (in terms of the economics/finance literature and/or the proposed methodology), feasible (in terms of the available data for empirical projects, and the available mathematical and computational methods for theoretical projects), and presented explicitly and early in the document.

3. Methodology. A well-developed, appropriate, and sophisticated methodology (an empirical approach or a theoretical modeling strategy) that informatively addresses the question or problem. For empirical projects, this means (1) a clear statement of the hypothesis or hypotheses, (2) a detailed characterization of the data set and why it was chosen, (3) the identification and justification of the statistical and econometric technique used (for example, linear or probit regression analysis), (4) careful and thorough implementation of the technique, and (5) review and discussion of applicable test statistics. For theoretical projects, this means (1) a complete statement of the structure of the model, (2) justification of solution methods (for example, closed-form analytical or numerical solutions), and (3) solution of the model.
4. **Results.** An explicit statement and discussion of the new results emerging from the project and their relevance to economics and/or finance. This discussion should also include a discussion of (1) how the results relate to economic intuition and/or the findings of related previous research, (2) possible limitations of the results, and (3) directions for further research.

5. **Structure.** A visible, easy-to-follow structure consistent with the conventions of economics. A reader can easily identify sections that typically occur in papers in the economics/finance literature, such as Title, Abstract, Introduction, Literature Review, Methodology, Results, Conclusion, and References.

6. **Literature Review.** The situating of the question or problem in the literature—not an attempt to exhaustively cite the literature, but rather to establish a link between the question/problem and the existing literature in economics/finance.

7. **Style.** Lucid, informative, readable sentences; well-defined key terms and concepts; appropriate gauging of readers’ knowledge; presentation of sufficient context; clear and concise writing.

8. **Source Citations.** The proper and consistent use of a citation style found in the economics/finance literature—for example, the APA style or the style used in the *American Economic Review*.

In general, the same criteria apply to junior papers and senior theses. When assessing independent work in terms of innovation, sophistication and completeness, JP advisors should take into account that juniors have significantly less time to work on their papers and taken fewer Economics courses than seniors.

**Grading Rubric**

- **A+** An A+ JP or thesis meets all of the criteria and makes a significant contribution to the Economics/Finance literature.

- **A range** A JP or thesis in the A range fully meets the top four criteria and is competent with respect to the other four.

- **B range** A JP or thesis in the B range is problematic in terms of any of the top four criteria (e.g., has a well-defined question/problem but a poorly rationalized methodology and inconclusive analysis, or an imprecise question/problem but an interesting set of results derived with appropriate methodology, or a competent analysis of a well-defined question but with only limited new insight or limited applicability) and is competent with respect to the other four criteria.

- **C range** A JP or thesis in the C range is faulty in terms of any of the top four criteria and may be less than competent with respect to the other four.

- **D** A D JP or thesis is deficient in most of the criteria and adds nothing to one’s understanding of the subject beyond what might be gleaned from superficial reading in the area. Even a D independent research project, however, must demonstrate that the writer has some knowledge and understanding of the economic issues.

- **F** An F JP or thesis is similar to D work in that it fails to meet most criteria. A failing grade indicates that the student did not research the subject at all adequately and/or fails to bring economic tools to bear on the problem.

Juniors and seniors are asked to stay within the recommended page limits for their JPs (25-35 pages) and senior theses (60-80 pages) and to follow formal requirements specified in the memos on independent work. The page limits do not include bibliographies and appendices.
For practical purposes faculty advisors will assign between 1 and 100 points to your prospectus and final JP.

<table>
<thead>
<tr>
<th>Grade</th>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Points</td>
<td>97-100</td>
<td>93-96</td>
<td>90-92</td>
<td>87-89</td>
<td>83-86</td>
<td>80-82</td>
<td>77-79</td>
<td>73-76</td>
<td>70-72</td>
<td>60-69</td>
<td>&lt;60</td>
</tr>
</tbody>
</table>

**Attendance**

Students are required to attend ten meetings: three lectures, four workshops, and three group advising meetings. AIs will take attendance during these meetings and it is the students’ responsibility to make sure that he/she signs the attendance sheet. Please do not sign for friends. Some juniors are exempt from the data workshops. Please see workshop descriptions for specific exemptions.

Students may receive between 0 and 100 points for attendance. Points received for attendance will be equal to the average of the points received on the prospectus and JP minus a penalty for missed meetings. *You may miss one meeting without penalty.* If you miss more than one meeting we will reduce your ‘attendance points’ by 3 points for each additional meeting you miss.

Example: If you miss three out of ten meetings, you will be penalized for missing two meetings. Suppose the average of your points on the prospectus and JP is 91. We will then subtract six points (2 times 3 points) from this average; you will receive 85 points for attendance.

**Participation**

Students are expected to participate in advising group meetings. You may be asked to give a presentation on your ongoing research and to provide feedback to other students. Moreover, participation in Blackboard discussion forums (if applicable) counts as part of the participation component of grading.

Students may receive between 0 and 103 points for participation. Points received for participation will be equal to the average of the points received on the prospectus and JP plus a participation adjustment. Each faculty advisor will indicate if a student’s participation in group meetings was above-average, average, or below-average. We will add three points to the average of the prospectus/JP points for above-average participation, subtract three points for below-average participation, and record your average prospectus/JP points for average participation.

Example: If your participation is above average and you received an average of 91 points on your prospectus and JP, you will receive 94 points for participation.

**Grading weights**

The following weights will be used to calculate your final grade. We will use points rather than letter grades to calculate your overall JIW grade. **Note that if you receive an F on your paper, your overall JIW grade will be a failing grade.**

<table>
<thead>
<tr>
<th></th>
<th>Prospectus</th>
<th>Paper</th>
<th>Attendance</th>
<th>Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students at Princeton University</td>
<td>25%</td>
<td>60%</td>
<td>7.5%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Juniors studying abroad for one term</td>
<td>26.25%</td>
<td>62.5%</td>
<td>3.75%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Juniors studying abroad for two terms</td>
<td>27.5%</td>
<td>65%</td>
<td>0%</td>
<td>7.5</td>
</tr>
</tbody>
</table>
8. Submission requirements

The prospectus and the final paper should be typed and double spaced, and should show the title, your name, your advisor’s name, and the date on the front page. Also type the honor pledge on the front page. Please follow the American Economics Review citations style. This in turn is based on the Chicago Manual of Style Author-Date system.

The prospectus and paper should be submitted electronically on the JIW Blackboard site before the due date. Please save your work in PDF format and label your file with your last and first name and your advisor’s last name. In Blackboard, go to Assignments and click on the applicable heading. Follow the instructions and make sure to click submit after you attach your file. (It is not enough to just save your work). We will use the time stamp on your submission when deciding on late penalties. Do not submit corrupted or otherwise unreadable files; check your PDF file to make sure that the conversion to PDF was successful.

Please do not submit your work piecemeal. A prospectus or paper must be complete upon submission. If the body of a paper is submitted on time, but a file including footnotes, figures, or complete references is submitted two days late, then the entire paper will be considered two days late. (See “9. Extensions and penalties” below).

9. Extensions and penalties

In the interest of equal treatment, extensions of time for graded works can only be granted by the department office. Please direct any requests to Professor Weyerbrock. Your advisor cannot grant extensions of time on the prospectus and the final JP. In addition, in practice, extensions are almost never granted. It is the student’s responsibility to ensure that the deadlines for the prospectus and the final JP are met. Neither time pressure from other academic or extra-curricular commitments, nor computer or printer problems are sufficient grounds for grants of extra time. Be sure to budget your time prudently.

All late submissions will be penalized. The penalties are one-third of a letter grade for a submission that is up to one day late and two-thirds of a letter grade for a submission that is two days late, with greater penalties for later submissions as determined by a faculty committee.

Back up your computer files: Please be sure to routinely back-up your computer files. A single hard-drive copy is not sufficient insurance. A hard drive failure will not excuse a late submission.

10. Academic infractions and academic fraud

A prospectus or paper which contains academic infractions or which is in any way the result of academic fraud will automatically receive a failing grade. Please be sure to cite correctly, and to give proper credit to other authors for their ideas and language. Document your references using the style used in the American Economic Review. It is also a very good idea to look at a recent paper in the American Economic Review or Journal of Economic Perspectives to have an example of how it is done.

11. A note on data

The feasibility of an empirical paper depends on the existence, availability, quality, and cost of your data. While the library’s data holdings are superb, and Firestone will be able meet most students’ needs, there are some specialized areas where the data tend to be proprietary or the data cost is prohibitive. In finance, for example, Firestone is strong in stocks, bonds, futures, commodities, mutual funds, mergers and acquisitions, IPOs, fundamentals, earnings forecasts, REITs, and options but data are very limited for hedge funds, venture capital, and real estate. International macroeconomic data are excellent, but international microeconomic data are harder to obtain. Proprietary data from corporate sources are generally expensive and sometimes unobtainable. Privacy restrictions may encroach on US micro data in health and education.
These caveats should not discourage you in any way. Firestone can support on a limited capacity most projects. But your project is more likely to succeed if you consult early with our knowledgeable Economics and Data Librarians, Bobray Bordelon (bordelon@princeton.edu), Bobbi Coffey (bcoffey@princeton.edu), and x.

12. Research involving human subjects

If you plan to conduct research that directly involves human subjects (e.g., asking classmates to respond to a survey, research using identifiable data) you must apply for permission to the Institutional Review Board (IRB) for Human Subjects. All human-subjects research must be approved by IRB before initiation. Moreover, the faculty advisor and student need to complete an online training and certification process prior to submitting their materials to IRB for review. The required training can be completed at: https://www.princeton.edu/ria/human-research-protection/training/. These are university (and federal) requirements. For more information, please visit the IRB website: https://www.princeton.edu/ria/human-research-protection/hrpp-home/ Note that the approval process takes some time.

13. Juniors studying abroad

Juniors in economics studying abroad in the fall or for the entire junior year should submit their JIW advising group request form as early as possible. Similar to juniors at Princeton they will be assigned to an advising group. Juniors abroad are strongly encouraged to keep in regular contact with their advisor and review material posted on the Blackboard site for the class as a whole and their advising group. They will receive a grade for participation but not for attendance during semester(s) they spend abroad. When evaluating a student for participation, the JP advisor will consider whether the student kept in touch regularly, turned in drafts as expected, etc. Juniors abroad are expected to adhere to the deadlines in the junior calendar. Please contact Professor Weyerbrock if you plan to go abroad and/or have any questions.

14. Political Economy concentrators

Juniors in the Department who wish to join the Program in Political Economy should submit PPE Applications to Christina Lipsky in 114 JRRB by Monday, October 2, 2017. Political Economy concentrators are required to write a junior paper with sufficient political economy content, as judged by the advisor. Several of the faculty advisors have specific expertise in public economics. However, PE students are not restricted to these advisors, since it is possible to identify paper topics within each of the areas (e.g., macroeconomics, labor economics, and development economics) that are concerned with political economy issues. Please address any questions related to this program to the Political Economy advisor, Professor Tom Fujiwara (fujiwara@princeton.edu).

15. Exemplary prospectuses and junior papers

Examples of successful prospectuses and JPs from previous years have been posted on the JIW Blackboard site.
OVERVIEW

The Department of Economics offers a Program in Political Economy (PPE) that is open to Economics concentrators.

There is strong interaction between the fields of economics and politics, both in content and in methods. Political forces shape markets and other economic institutions. These forces attempt to modify the distribution of income, and both introduce distortions in markets and correct for market failures. On the other hand, economic motivations permeate the political environment. Furthermore, both fields model the motivations of individual actors and use statistical methods. The Program in Political Economy is for students who are interested in studying issues at the intersection of these two fields.

Admission to the program takes place in the beginning of the fall semester of the junior year. A student who participates in this program is an Economics concentrator and is subject to all the requirements of the Economics department. The PPE functions like a certificate in that its requirements are additions to those already required of all Economics concentrators. Upon graduation, given successful completion of all requirements, the student receives a Certificate in Political Economy from the Department of Economics. Participation in the program does not appear on the student's university transcript.

PREREQUISITES

To enter the program, the student should satisfy the prerequisites for concentration in both the Politics and the Economics departments. This means that the students entering the program must have completed ECO 100 and 101, MAT 175, ECO 202 (statistics), and two Politics courses (at any level) on a graded basis.

POLITICS COURSE REQUIREMENTS

In addition to the two Politics prerequisites, a student in the PPE must complete three Politics departmentals, i.e., Politics courses in the 300 level or higher, on a graded basis. One of these, upon approval of the Political Economy Advisor, can be a politics-related course from a department other than Politics or Economics.

Because of these additional requirements, a PPE student may want to count one or two of the Politics departmentals as Economics cognates. Approval of cognates is subject to the same rules as for other Economics concentrators. Economics cognates are approved by Professor Smita Brunnermeier and under no circumstances is approval given retroactively. Infrequently, and only with advance approval, an Economics course can be counted toward the Politics course requirement of the PPE; contact the Political Economy Advisor, Prof. Thomas Fujiwara fujiiwara@princeton.edu, 131 Julis Romo Rabinowitz Buliding.

INDEPENDENT WORK

A PPE student has the same junior and senior independent work requirements as do other economics concentrators, with one exception. Political Economy concentrators are required to write a junior paper with sufficient political economy content, as judged by the advisor. Students are also encouraged, but are not required, to write a senior thesis that is related to political economy.
DEPARTMENTAL AVERAGE

Politics courses are not included in the student's departmental average (unless a course has been approved as an Economics cognate).

HOW TO APPLY

Application forms for the program are available on the department’s undergraduate webpage and at the end of this handbook. A student wishing to enroll in the PPE must submit the application form by Monday, October 2, 2017, to Christina Lipsky, 114 Julis Romo Rabinowitz Building.

The application form asks you to list your prerequisites, to write a brief statement of intent, and to specify a four-semester course plan. The purpose of the statement of intent is for you to think about why you are interested in the program and to consider a topic for your junior independent work. The purpose of the course plan is for you to formulate a cohesive set of courses and a timely plan for completing them. The course plan should specify what economics and politics departmentals you will take and when. It is not necessary to inform the PPE advisor if you subsequently deviate from the plan.

FOR MORE INFORMATION

For more information, contact the Political Economy Advisor, Professor Prof. Thomas Fujiwara fujiwara@princeton.edu, 131 Julis Romo Rabinowits Building.
To enter the Program in Political Economy, students must satisfy the prerequisites for concentration in both the Department of Economics and the Department of Politics.

Indicate when you fulfilled the economics prerequisites:

ECO 100 _______________ ECO 101 _______________ ECO 202 _______________
Semester/Yr. Semester/Yr. Semester/Yr.

MAT 175 _______________
Semester/Yr.

Indicate when you fulfilled the Politics prerequisites (any two graded politics courses):

POL ________ POL ________
Semester/Yr. Semester/Yr.

In addition to these prerequisites, students in the Program must take Econometrics (ECO 302 or 312), Macroeconomics (ECO 301 or 311), and Microeconomics (ECO 300 or 310), five other 300- or 400-level economics courses and three 300-level politics courses. For our information and to help you plan ahead, please indicate how you have fulfilled or intend to fulfill these requirements. This is not a binding contract and you do not need to seek approval from the advisor of the Program in Political Economy if any changes are necessary in subsequent semesters.

Indicate when you fulfilled, or plan to fulfill, the economics core courses (circle one in each case):

ECO 202 _______________ ECO 302 or 312 _______________
(Statistics - required) Semester/Yr. (Econometrics) Semester/Yr.

ECO 301 or 311 _______________ ECO 300 or 310 _______________
(Macroeconomics) Semester/Yr. (Microeconomics) Semester/Yr.

List five other economics courses or cognates to count as departmentals.

Course # Course Title Semester/Yr.

______ ____________________________

______ ____________________________

______ ____________________________

______ ____________________________

______ ____________________________

______ ____________________________
List the other three 300-level politics courses or cognates to fulfill the PPE politics requirement.

Course #  Course Title  Semester/Yr.

____  ____________________________________  __________________

____  ____________________________________  __________________

____  ____________________________________  __________________

STATEMENT OF INTENT

Please write one or more paragraphs to discuss the substantive area of interest, which you intend to investigate through your course of study in political economy and to indicate a possible topic for your junior independent work. The purpose of this is to ensure that you have carefully considered why you want to be in the Program in Political Economy.
SAMPLE Survey
Please fill out online: Online Advising Group Preference Survey

Due Date: Tuesday, September 26, 2017, 4:45 p.m. Questions to Kristen George, 197 JRRB

Student’s Name: _________________________________ Date: ____________

1) Did you self-match already with a faculty advisor? If yes, indicate the advisor’s name here and ask the faculty advisor to E-mail sweverbr@princeton.edu to confirm the match.

2) What day of the week can you meet on?
Please choose: Mondays and Wednesdays Only Mondays Only Wednesdays

3) Please indicate your preference for a specific advising group below. Please rank your top six choices.

<table>
<thead>
<tr>
<th>Preference</th>
<th>Advisor (AI)</th>
<th>Research Areas</th>
<th>Two Fall Meetings from 3-4:20 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhatt (Sobrino)</td>
<td>Economics of Digitization, IO, Finance, Applied Micro</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>Biasi (Keshidi)</td>
<td>Labor Economics, Public Economics, Economics of Education</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>Boustan (Jacome)</td>
<td>Economic History, Labor Economics, Urban Economics</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>S. Brunnermeier (Young)</td>
<td>Environmental Economics, Applied Micro</td>
<td>Mondays</td>
<td></td>
</tr>
<tr>
<td>Dobbie (Schmickler)</td>
<td>Labor Economics, Household Finance, Economics of Education</td>
<td>Mondays*</td>
<td></td>
</tr>
<tr>
<td>Fiefer (Wise)</td>
<td>International Trade, Development Economics</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>Kowalski (Sampathkumar)</td>
<td>Health Economics, Public Finance, Econometrics</td>
<td>Mondays</td>
<td></td>
</tr>
<tr>
<td>Maggi (M) (Baratuche)</td>
<td>Economic Geography, International Trade</td>
<td>Mondays</td>
<td></td>
</tr>
<tr>
<td>Maggi (W) (Ho)</td>
<td>Economic Geography, International Trade</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>Matray (Gao)</td>
<td>Corporate Finance, Entrepreneurship, Innovation, Behavioral Finance</td>
<td>Mondays</td>
<td></td>
</tr>
<tr>
<td>Noonan (Quach)</td>
<td>Health Economics, Family Economics</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>Price (Quach)</td>
<td>Labor Economics, Public Economics</td>
<td>Mondays</td>
<td></td>
</tr>
<tr>
<td>Rosales-Rueda (Baranek)</td>
<td>Economics of Human Capital, Health Economics, Development, Program Evaluation</td>
<td>Wednesdays</td>
<td></td>
</tr>
<tr>
<td>Weyerbrock (Wise)</td>
<td>International Economics, Economics of Food and Agriculture</td>
<td>Mondays</td>
<td></td>
</tr>
</tbody>
</table>

**There will be two meetings in the fall and one in the spring. Almost all fall meetings will take place from 3-4:20 pm. Prof. Dobbie's first meeting on October 2 will be from 7:30-8:50 pm**
4) Please circle two broad areas in economics in which you are interested in terms of JIW:

- Domestic Policy
- Microeconomics
- Economic Theory
- International
- Macroeconomics
- Financial Economics

5) Please indicate any thoughts regarding the topic of your Junior Independent Work. Be as specific as you can at this time. (You may change your mind).

6) Will you apply to the Program in Political Economy?

7) Are you planning to study abroad this year?
   Please choose:  No  Yes, fall.  Yes, spring.

8) Please list any 300-level and higher-level ECO courses by course number (i.e., ECO 300, etc.) that you have already taken or that you intend to take this year.