

# Matthew W. Thomas

ECONOMICS PH.D. CANDIDATE AT NORTHWESTERN UNIVERSITY

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## Education

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### Northwestern University

PH.D. IN ECONOMICS

M.A. IN QUANTITATIVE ECONOMICS AND ECONOMETRICS

Evanston, IL

Sep 2017 - Present

Sep 2017 - Jun 2018

### Williams College

B.A. IN MATHEMATICS AND ECONOMICS, GPA: 3.9, MAGNA CUM LAUDE

Williamstown, MA

Aug 2013 - June 2017

## Selected Professional and Research Experience

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### Graduate Researcher

NORTHWESTERN UNIVERSITY

Evanston, IL

Jun 2019 - Present

- Developed Python and R code to analyze large economic data sets for independent and collaborative research
- Modeled interactions in credit markets and created novel estimators for preferences and beliefs

### Charles Schwab

RETAIL ANALYTICS INTERN

Austin, TX

Summer 2016

- Worked with very large datasets (ex. all trades placed through brokerage service in last 10 years) in SAS and SQL to describe and explain customer behavior
- Identified optimal target audience among four hundred thousand clients for a strategic marketing campaign
- Presented simple, easy to understand, and actionable data-based insights for leadership teams
- Developed a simple tool with a team of fellow interns to drive recruitment and improve employee retention
- Organized weekly networking events and meetings for 30 interns to discuss operations and current projects

### Williams College

STUDENT TECHNICAL CONSULTANT MANAGER

Williamstown, MA

May 2014 - Jun 2017

- Promoted to manage a team of 40 students who provide technical support for students, staff, and faculty
- Took charge of technology and network problems in person and over the phone while reassuring clients

## Selected Teaching Experience

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### Kellogg School of Management

GRADUATE INSTRUCTOR FOR ANALYTICS COURSES

Evanston, IL

Sep 2019 - Present

- Assess and provide feedback on weekly case projects to classes of over 130 MBA students
- Support MBA students by answering questions and providing programming assistance in R
- Present workshops on programming to prepare MBA students for technical internships at early stage startups

### Northwestern University

GRADUATE INSTRUCTOR

Evanston, IL

Sep 2018 - Present

- Assess and provide feedback for classes of 80-200 students in Microeconomics and Econometrics
- Present advanced economic concepts in simple and approachable lectures to undergraduate students

## Technical Skills

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- Programming proficiency in STATA, R, Python, SQL, Mathematica, and SAS through research, classwork, and work experience – some experience with MatLab, and Julia
- Knowledge of machine learning algorithms and Python libraries through coursework and independent study
- Git and collaborative development expertise through coding projects and my service as a GitHub Advisor
- Experienced with Linux dedicated server and VPS administration through web development freelance work

## Honors

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- Awarded Carl Van Dyne Prize (\$6,350) for thesis support based on excellence in economics and research
- Awarded Sentinels Fellowship (\$5,300) to fund research on the effect of nonprofits on high school graduation