

CHANDLER LESTER

SCHOOL ADDRESS:

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EDUCATION

UNIVERSITY OF OREGON, EUGENE OR

Ph.D., Economics

M.S., Economics

Sept. 2016-June 2021 (*expected*)

Sept. 2016-Dec. 2017

FLORIDA STATE UNIVERSITY, TALLAHASSEE FL

B.S., Economics & Statistics

B.S., Applied & Computational Mathematics

Aug. 2012-Apr. 2016

Aug. 2012-Apr. 2016

FIELDS OF EXPERTISE

Macroeconomics, Adaptive Learning, Bounded Rationality, Continuous-Time Modeling

WORKING PAPERS (ABSTRACTS BELOW)

"Bounded Rationality in Macroeconomic Models: A Continuous-Time Approach"

"Boundedly Rational Decision Making in Continuous-Time"

"Adaptive Learning in a Continuous-Time Setting: Representative Agent Exercises"

PROFESSIONAL EXPERIENCE

SUMMER ASSOCIATE

Congressional Budget Office—*Financial Analysis Division*

Summer 2020

- Banking failures project: used FDIC call-sheet data and machine learning techniques
- Winner of the July Non-Farm Payroll employment forecast competition

DEPARTMENTAL SERVICE

Webmaster, University of Oregon Macro Group

2017-2019

Economics Ph.D. Program Representative

2017-2018

UNIVERSITY SERVICE

Panelist, First-Generation Student Panel

Spring 2020

Volunteer, Undergraduate Research Symposium

Spring 2019

Mentor, Promising Scholars Mentorship Program

Spring 2019

GRANTS, HONORS & AWARDS

University of Oregon Dissertation Research Fellowship

Fall 2020-Spring 2021

Kleinsorge Summer Research Award

Summer 2019

Graduate Teaching Fellowship

Fall 2016-Spring 2020

Promising Scholar (Diversity & Recruitment) Award

Fall 2016-Spring 2018

TEACHING EXPERIENCE

INDEPENDENT INSTRUCTOR

EC 313: Intermediate Macroeconomics
EC 202: Principles of Macroeconomics

Summer 2018, Fall 2018, Spring 2020
Fall 2019

TEACHING ASSISTANT

EC 201: Principles of Microeconomics
EC 202: Principles of Macroeconomics
EC 423/523: Econometrics (First Year Ph.D. course)

Spring 2018, Fall 2016
Winter 2017
Fall 2017

PRESENTATIONS

University of Oregon Macro Group
Congressional Budget Office—*Financial Analysis Division*
Congressional Budget Office—*Data Science Workshop*

Fall 2020, Fall 2019, Winter 2019 (x2)
Summer 2020
Summer 2020

SOFTWARE

Expert: Julia, R, MATLAB, Stata, Git(hub), L^AT_EX
Proficient: Fortran, C++, Bash, SAS (certified)

REFERENCES

DISSERTATION COMMITTEE (LETTER WRITERS)

Bruce McGough (Chair)
Professor of Economics
University of Oregon
Email: bmcgough@uoregon.edu

George Evans
John B. Hamacher Professor of Economics
University of Oregon
Email: gevans@uoregon.edu

David Evans
Assistant Professor of Economics
University of Oregon
Email: devans@uoregon.edu

ADDITIONAL REFERENCES

Jeremy Piger (Mentor via Promising Scholars)
Professor of Economics, Department Head
University of Oregon
Email: jpiger@uoregon.edu

PLACEMENT

Sharon Kaplan
Graduate Placement Coordinator
University of Oregon
Email: kaplan@uoregon.edu

Bounded Rationality in Macroeconomic Models: A Continuous-Time Approach (Job Market Paper)

We reconsider optimal decision making in a continuous-time framework using adaptive learning, specifically shadow-price learning. These dynamics are explored in a real business cycle framework. The agent in our shadow-price learning model takes in information and updates their forecasts of future states and their decisions regarding choice variables. In our setting, the agent makes decisions at high frequencies, which alters the volatility of the agent's parameter estimates and leads to smoother real-time convergence to the rational expectations equilibrium. The less volatile convergence is attributed to the agent's ability to alter their forecasts more often as new information becomes available. Alternative sampling methods where the data generating process is a higher frequency than the agent's observations and other extensions are also explored in this paper. We show that these sampling methods yield similar results to the case where the agent takes in all data points and are less computationally burdensome.

Boundedly Rational Decision Making in Continuous-Time

Continuous-time macroeconomic literature has grown remarkably in recent years. As work on continuous-time models becomes, more prevalent macroeconomists need to adapt essential discrete-time methods to continuous-time. This paper modifies adaptive learning techniques to continuous-time. One approach to accomplish this task is shadow-price learning (SP-learning), a framework in which agents forecast their expected shadow prices. To use this framework efficiently, we first need a tractable continuous-time linear-quadratic (LQ) environment. While discrete-time LQ problems are common in the literature, there is very little work on continuous-time LQ problems. Thus, our contributions are two-fold. We build a continuous-time LQ framework for solving Hamilton-Jacobi-Bellman (HJB) equations using iterative methods and implement adaptive learning techniques in this new setting.

Adaptive Learning in a Continuous-Time Setting: Representative Agent Exercises

We accomplish two distinct, but closely connected, tasks in this paper. First, We look to create a connection between discrete and continuous-time models. This is done by recasting traditional discrete Ramsey models so they are dependent on the increment of time, Δt , and then taking the limit of these models as the size of this increment goes to zero. The resulting models are equivalent to continuous-time Ramsey models. Second, We examine these models in a basic adaptive learning framework. We accomplish this by applying exogenous updating rules to models with a specified stochastic process. After seeing that the misspecified models converge, We then implement a real-time updating rule where agents update their parameter estimates—for a stochastic process—after observing output of the process.