

Updated August 30, 2019

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Education

Ph.D. Candidate, Economics, Temple University, 2018- (*Expected:* May 2020)

Dissertation: “Treatment effects in bayesian and latent variable models”

Committee: [Brantly Callaway](#) (Chair), [Oleg Rytchkov](#), [Charles Swanson](#)

Ph.D. Student, Economics, Temple University, 2014-

B.A., Economics and French (First Class), University of Ghana, Legon, 2013

Research Interests

Microeconometrics and Empirical Industrial Organisation

Research Skills

Bayesian Econometrics, Machine Learning, Statistical programming

Working Papers

1. R&D spillover effects on firm innovation - A spatial approach (Job Market Paper - Preliminary version available on request)

Abstract: Quantifying R&D spillover effects requires a spatial matrix that characterises the strength of connectivity between firms. In practice, the spatial matrix is often unknown. This paper proposes a parsimonious approach to estimating the spatial matrix alongside parameters and quantifies R&D spillovers on innovation. The approach generalises to a class of linear and non-linear models, and it allows asymmetry and time-variation in the spatial matrix. On firm innovation, we find strategic

substitutability in firm R&D effort, negative spillover effects, and positive private effects.

2. Clustered covariate regression [[SSRN](#)], (with Abdul-Nasah Soale, under review)
3. Bayesian Distribution Regression [[SSRN](#)], (with Weige Huang)
4. Recovering distributions for the estimation of treatment effects under partly unobserved treatment with repeated cross-sections [[SSRN](#)]

Work in Progress

1. Unobserved heterogeneity in two-part models (with Brantly Callaway)
2. A parsimonious approach to estimating the SAR spatial matrix from panel data

Teaching

1. Temple University

Instructor, Principles of Macroeconomics, Fall 2018, Spring 2019, Fall 2019

Teaching Assistant for Prof. Michael Bonnano, 2014-2016

Teaching Assistant for Prof. Michael Leeds, 2016-2017

Instructor, Principles of Microeconomics, Summer I, 2015, 2016, 2018

Instructor, Intermediate Microeconomics, Summer I, 2018

2. University of Ghana, Legon

Teaching Assistant for [Dr. Abel Fumey](#), 2013-2014

Software

R packages: bayesdistreg [[CRAN](#)] [[Website](#)] [[Github](#)] (with Weige Huang), cluscov [[CRAN](#)] [[Website](#)] [[Github](#)](with Abdul-Nasah Soale), RpacSPD [[Website](#)] [[Github](#)]

C projects: metricsC [[Github](#)], RdotC [[Website](#)] [[Github](#)],

Fortran projects: metricsFortran [[Github](#)]

Matlab, Stata, Octave, Python, L^AT_EX, Microsoft Office

Languages

Ewe (mother tongue), English (fluent, official language of Ghana), French (fluent, DALF C2), Spanish (fluent, DELE B2), German (intermediate), Portuguese (intermediate), Twi

Honors and Fellowships

1. Research Fellowship, Department of Economics, Summer 2019
2. Research Fellowship, Department of Economics, Summer 2017

References

Prof. Brantly Callaway

(Dissertation Advisor)

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Prof. Charles Swanson

(Dissertation Committee Member)

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Prof. Oleg Rytchkov

(Dissertation Committee Member)

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Prof. Doug Webber

Department of Economics, TU

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