Young Ahn **(Updated in October 2023)**

CONTACT INFORMATION
youngahn@sas.upenn.edu
https://bayesiahn.github.io/

EDUCATION

University of Pennsylvania
Ph.D., Economics, September 2020 –.
(2021–2022: Leave of Absence Due to Military Service in Korea)

University of British Columbia
B.Sc., Mathematics (with Distinction), May 2015 – May 2017.
B.A., Economics, May 2012 – November 2014.

WORKS IN PROGRESS

1. **Difference-in-Differences with Latent Group Structures** (with Hiroyuki Kasahara)
   Presented in: Labor, Firms, and Macro Reading Group 2023, Califonia Econometrics Conference 2023, CESG 2023*.
2. **From Bytes to Balance: Technology, Skill Accumulation, and Inequality in Competitive Environments**
   Presented in: AASLE 2023*.
3. **On Policy Shocks under Equilibrium Responses** (with Francesco Agostinelli)
4. **Difference-by-Transitions: Theory and Applications**
5. **Finite Mixture Regression Models for Treatment Effect Parameters with Many Regressors** (with Hiroyuki Kasahara)
   Presented in: EcoSta 2021.
6. **Learning How Policymakers Rank**
   Presented in: CESG 2019.

(*: Scheduled)

SOFTWARE

1. `groupdid` (with Hiroyuki Kasahara)
   R package for difference-in-differences estimation when parallel trends assumptions do not hold.
   Available at `https://github.com/bayesiahn/groupdid`.
2. `normalregMix` (with Hiroyuki Kasahara and Katsumi Shimotsu)
   R package for estimation of normal mixture regression models and testing the number of components.
   Available at `https://github.com/hkasahar/normalregMix`.
3. `rMSWITCH` (with Hiroyuki Kasahara and Katsumi Shimotsu)
   R package for estimation of Markov regime-switching models and testing the number of regimes.
   Available at `https://github.com/chiyahn/rMSWITCH`.
4. `mixPanel`
   R package for estimation of dynamic linear mixture panel data models.
   Available at `https://github.com/chiyahn/mixPanel`.
5. `SimpleDifferentialOperators.jl` (QuantEcon)
   Julia package for solving differential equations by numerical discretization. I worked on derivation (with Jesse Perla), implementation, documentation, tutorials, and complete examples.
   Available at `https://github.com/quantecon/SimpleDifferentialOperators.jl`.

RESEARCH EXPERIENCE

Research Assistant October 2023 –
Department of Economics, University of Pennsylvania
Supervisor: Andrew Shephard

Contributor January 2019 –
QuantEcon

Numerical solutions for heterogenous agent models in macroeconomics.

Research Assistant July 2019 – June 2020
Vancouver School of Economics, University of British Columbia
Supervisor: Giovanni Gallipolli

Predoctoral Fellow August 2018 – June 2020
Vancouver School of Economics, University of British Columbia
Supervisor: Jesse Perla

Research Assistant June 2017 – July 2018
Bank of Canada
Supervisor: Heng Chen

Research Assistant May 2016 – June 2017
Vancouver School of Economics, University of British Columbia
Supervisor: Hiroyuki Kasahara

Research Intern October 2014 – January 2015
Korea Labour & Society Institute

Teaching Experience

Guest Lecturer
ECON 628 - Topics in Applied Econometrics I (UBC) Janurary 2017 – April 2017
Lecture on data analysis and auto-differentiation for second-year graduate students.

Teaching Assistant
ECON 2310 - Econometric Methods and Models (Penn) Fall 2023
Supervisor: Xu Cheng
ECON 4320 - Microeconometrics (Penn) Spring 2023
Supervisor: Petra Todd
ECON 0100 - Introduction to Microeconomics (Penn) Fall 2022
Supervisor: Anne Duchene
CPSC 303 - Numerical Approximation and Discretization (UBC) Spring 2017

Presentation

2023: Labor, Firms, and Macro Reading Group, CESG*, Penn*, AASLE*.
–**2022:** CESG, Penn.

Selected Graduate Coursework

University of British Columbia
Computer Science: convex analysis and optimization.
Mathematics: optimal transportation, graduate real analysis I/II, graduate probability theory I/II.
Statistics: asymptotic statistics, graduate statistical theory I/II, graduate machine learning theory.

Honours & Awards

University of British Columbia
Dean's Honour List (x2) 2015 – 2017
NSERC Undergraduate Student Research Awards May 2016
NSERC Undergraduate Student Research Awards* May 2017
Graduation with Distinction May 2017
Financial assistantship for the economics MA program in UBC* March 2018
(*: Offered, but declined for another job offer.)

Others
Service for the Republic of Korea Army (Sergeant, served in an artillery battalion) 2020 – 2022

Skills

Computer programming:
C/C++, Julia, MATLAB, Python, R, Stata, shell scripting, multi-cluster computing with MPI, version controls with Git, GNU Make.
Foreign languages:
Korean (native)
Japanese (advanced / certified with JLPT N1; 2022)
Mandarin Chinese (advanced / certified with HSK Level 6; 2020)
Literary Chinese (intermediate)