

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	<ol style="list-style-type: none"> Difference-in-Differences with Latent Group Structures (with Hiroyuki Kasahara) Presented in: Labor, Firms, and Macro Reading Group 2023, California Econometrics Conference 2023, CESG 2023*. From Bytes to Balance: Technology, Skill Accumulation, and Inequality in Competitive Environments Presented in: AASLE 2023*. Non-Random Exposure to Policy Shocks under Equilibrium Responses (with Francesco Agostinelli) Difference-by-Transitions: Theory and Applications Finite Mixture Regression Models for Treatment Effect Parameters with Many Regressors (with Hiroyuki Kasahara) Presented in: EcoSta 2021. Learning How Policymakers Rank Presented in: CESG 2019. (*: Scheduled)	
SOFTWARE	<ol style="list-style-type: none"> 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. 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. 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. mixPanel R package for estimation of dynamic linear mixture panel data models. Available at https://github.com/chiyahn/mixPanel. 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 Department of Economics, University of Pennsylvania Supervisor: Andrew Shephard Contributor	October 2023 – January 2019 –

	QuantEcon Numerical solutions for heterogenous agent models in macroeconomics.	
	Research Assistant Vancouver School of Economics, University of British Columbia Supervisor: Giovanni Gallipolli	July 2019 – June 2020
	Predoctoral Fellow Vancouver School of Economics, University of British Columbia Supervisor: Jesse Perla	August 2018 – June 2020
	Research Assistant Bank of Canada Supervisor: Heng Chen	June 2017 – July 2018
	Research Assistant Vancouver School of Economics, University of British Columbia Supervisor: Hiroyuki Kasahara	May 2016 – June 2017
	Research Intern Korea Labour & Society Institute	October 2014 – January 2015
TEACHING EXPERIENCE	Guest Lecturer ECON 628 - Topics in Applied Econometrics I (UBC) Lecture on data analysis and auto-differentiation for second-year graduate students.	Janurary 2017 – April 2017
	Teaching Assistant ECON 2310 - Econometric Methods and Models (Penn) Supervisor: Xu Cheng ECON 4320 - Microeconometrics (Penn) Supervisor: Petra Todd ECON 0100 - Introduction to Microeconomics (Penn) Supervisor: Anne Duchene CPSC 303 - Numerical Approximation and Discretization (UBC)	Fall 2023 Spring 2023 Fall 2022 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) NSERC Undergraduate Student Research Awards NSERC Undergraduate Student Research Awards* Graduation with Distinction Financial assistantship for the economics MA program in UBC* (*: Offered, but declined for another job offer.)	2015 – 2017 May 2016 May 2017 May 2017 March 2018
	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)	