

# Duong Trinh

CONTACT INFORMATION	Adam Smith Business School, University of Glasgow Office 101, 12 Southpark Terrace Glasgow, G12 8LG, United Kingdom	<a href="mailto:Duong.Trinh@glasgow.ac.uk">✉ Duong.Trinh@glasgow.ac.uk</a> <a href="tel:+447512022723">☎ (+44) 7512 022 723</a> <a href="https://duongtrinhss.github.io">🌐 duongtrinhss.github.io</a>
RESEARCH INTERESTS	Bayesian Microeconometrics; Applied Econometrics; Applied Microeconomics Causal Inference; Machine Learning; High-dimensional Models; Spatial & Network Models	
EDUCATION	<p><b>University of Glasgow</b>, Glasgow, UK Ph.D. in Economics 2021 – 2025 (expected)</p> <ul style="list-style-type: none"><li>· Advisors: Professor Dimitris Korobilis, Dr. Kenichi Shimizu, Dr. Santiago Montoya-Blandón.</li><li>· Thesis title: <i>Three Essays in Bayesian Microeconometrics: Embracing Causality and Heterogeneity.</i></li></ul> <p><b>University of Glasgow</b>, Glasgow, UK M.Res. in Economics (Distinction) 2019 – 2021</p> <p><b>Foreign Trade University</b>, Hanoi, Vietnam B.A. in International Business Economics (Excellent) 2014 – 2018</p>	
REFERENCES	<p>Professor <b>Dimitris Korobilis</b>, Ph.D. Adam Smith Business School, University of Glasgow <a href="mailto:Dimitris.Korobilis@glasgow.ac.uk">Dimitris.Korobilis@glasgow.ac.uk</a></p> <p>Dr. <b>Santiago Montoya-Blandón</b> Adam Smith Business School, University of Glasgow <a href="mailto:santiago.montoya-blandon@glasgow.ac.uk">santiago.montoya-blandon@glasgow.ac.uk</a></p> <p>Dr. <b>Kenichi Shimizu</b> Department of Economics, University of Alberta <a href="mailto:Kenichi.Shimizu@ualberta.ca">Kenichi.Shimizu@ualberta.ca</a></p>	
WORKING PAPERS	<p><b>Causal Inference on Quantiles in High Dimensions: A Bayesian Approach</b>, <i>Job Market Paper</i> <i>Abstract:</i> This paper proposes a novel approach, Bayesian Analog of Doubly Robust (BADR) estimation, to estimate unconditional Quantile Treatment Effects (QTEs) in observational studies. By augmenting the proposed estimator with shrinkage priors, this framework can account for high-dimensional covariates and feature a flexible Bayesian modeling strategy with favorable frequentist properties in finite samples, even when either the treatment assignment or outcome models are misspecified. The proposed approach offers a straightforward and adaptable implementation for incorporating probabilistic machine learning techniques to fit the propensity score and conditional cumulative distribution function, followed by combining posterior draws. This enables the effective handling of high-dimensional covariate spaces or nonlinear relationships to achieve better accuracy and appropriate uncertainty quantification. The simulation results show that BADR estimators yield a substantial improvement in bias reduction for QTE estimates compared with popular alternative estimators found in the literature. We revisit the role of microcredit expansion and loan access on Moroccan household outcomes, demonstrating how the new method adds value in characterizing heterogeneous distributional impacts on outcomes and detecting changes in overall economic inequality, which is also appealing to other applied contexts.</p> <p><b>Bayesian Causal Inference in the Presence of Endogenous Selection into Treatment and Spillovers.</b> (2024)</p> <p><b>A Comparative Review of Bayesian Shrinkage and Variable Selection in Econometrics.</b> (with Dimitris Korobilis, Kenichi Shimizu) (2022)</p> <p><b>Inference on Treatment Effects with High-dimensional Controls: Frequentist and Bayesian Approaches.</b> (2021)</p>	

	<b>Government Disclosure in the Pandemic.</b> (2020)	
	<b>Early Career Gender Wage Gap: First Evidence in Vietnam.</b> (with Anh Nguyen Ngoc, Hai Doan Ma, Thuc Hoang Kim) (2018)	
WORK IN PROGRESS	<b>Selection-corrected SAR Mixture Model.</b> (with Santiago Montoya-Blandón).	
PUBLISHED PAPERS	<b>Firm Export and the Impact of Foreign Ownership in Vietnam: A Micro-data Analysis.</b> (with Vinh Nguyen Thi Thuy), <i>Journal of Economic Development</i> (2020), 45(1).  <b>The Impact of Exchange Rate Volatility on Exports in Vietnam: A Bounds Testing Approach.</b> (with Vinh Nguyen Thi Thuy), <i>Journal of Risk and Financial Management</i> (2019), 12(1).	
TEACHING EXPERIENCE	<b>University of Glasgow, Glasgow, UK</b> <i>Graduate Teaching Assistant</i> <ul style="list-style-type: none"> <li>· Bayesian Data Analysis (Graduate)   Spring 2025</li> <li>· Basic Econometrics (Graduate)   Fall 2023, 2024</li> <li>· Econometrics 2 (Undergraduate)   Spring 2024</li> <li>· Econometrics 1 (Undergraduate)   Fall 2020, 2021</li> <li>· Introductory Statistics for Economists (Undergraduate)   Spring 2022, 2024</li> </ul>	Sep 2020 – present
RESEARCH EXPERIENCE	<b>The Development and Policies Research Center, Hanoi, Vietnam</b> <i>Research Intern, Research Assistant</i>  <b>Institute of Economics and International Trade, Hanoi, Vietnam</b> <i>Research Intern</i>	2017 - 2018  2016
CONFERENCE PRESENTATIONS	Annual Conference of International Association for Applied Econometrics (IAAE), Thessaloniki, Greece  5 <sup>th</sup> Panmure House Annual PhD Workshop, Edinburgh, UK  12 <sup>th</sup> Vietnam Economists Annual Meeting (VEAM), Dalat, Vietnam  11 <sup>th</sup> Vietnam Economists Annual Meeting (VEAM), Hanoi, Vietnam  13 <sup>th</sup> Asia Pacific Trade Seminars (APTS), Hanoi, Vietnam  Others: Volunteer at RES and SES Annual Conference 2023, Glasgow, UK; Participant at European Seminar on Bayesian Econometrics (ESOB) 2023, Glasgow, UK.	2024  2022  2019  2018  2017
SELECTED SHORT COURSES	1 <sup>st</sup> Oxford Economics Summer School on <i>Machine Learning and Treatment Effects</i> 1 <sup>st</sup> SGPE PhD Summer School on <i>Machine Learning for Economists</i> MITx Certification on <i>Introduction to Computer Science and Programming Using Python</i>	Sep 2022 Aug 2022 Aug 2020
SCHOLARSHIPS & AWARDS	Adam Smith Business School Scholarship (M.Res. & Ph.D.) Foreign Trade University Academic Scholarships Third Prize at the Undergraduate Olympiad of Econometrics and Applications	2019 – 2024 2014 – 2018 2017
SKILLS	<b>Programming:</b> R, MATLAB, Python, Stata, Cpp, Julia, $\text{\LaTeX}$ , Markdown, CSS, Git, Unix. <b>Languages:</b> Vietnamese (native), English (fluent).	