${f Yvonne}\,\,{f R}\,\,{f Ng}\,\,|\,\,{f Applied}\,\,{f Economist}$

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Experience

Federal Housing Finance Agency

05/2024 - 02/2025

Pathways Program Intern (Exam & Finance)

EL-0599-4

- Built a method using SAS that incorporated COVID-19 loan forbearance outcomes to increase the modeling power of the FHFA Mortgage Analytics Platform (FMAP) for stress-testing and assessing risk exposure of millions of loans in Fannie Mae's and Freddie Mac's single-family mortgage portfolios.
- Identified time-varying sources of endogeneity and bias in the econometric modeling design of FMAP to improve FMAP's credit loss predictions for informing capital policy.

University of Oslo, Researcher

11/2022 - 12/2023

- Analyzed how limited firm access to imports and the structure of supply chain networks affect firm market power and pass-on price effects in a developing African country.
- Transformed a panel dataset with millions of monthly firm sales and prices into sparse matrices to reduce computation time by several folds for GMM estimation results using NumPy and pandas in Python.
- Solved an optimization problem using Quasi-Newton methods and the Python SciPy package to implement a GMM estimation of a structural model of firm market power.

University of Washington, Instructor

12/2022 - 03/2023, 03/2022 - 06/2022

- Independently taught Intermediate Microeconomics, introducing economics, business, finance, and other students to fundamental microeconomic models and theories.
- Designed and administered a course syllabus, lectures, and exams to 30-40 undergraduates.

NERA Economic Consulting, Senior Analyst

06/2021 - 06/2022

- Consulted for consumer finance litigation by drafting and auditing expert reports.
- Illustrated to regulators using Excel and Stata charts the process of a national U.S. bank's interest rate adjustments for calculating refunds on thousands of credit card accounts.
- Explicated to regulators the assumptions made in a national U.S. bank's refund calculations for credit card accounts to mitigate litigation risk.
- Managed and trained other researchers in data visualization, Stata, and effective documentation.

NERA Economic Consulting, Analyst

02/2017 - 06/2019

- Consulted for intellectual property (IP), antitrust, and consumer finance litigation by drafting and auditing reports submitted as expert testimony.
- Cleaned and analyzed datasets with millions of transactions to demonstrate that a multi-million dollar merger complied with the U.S. Department of Justice's standards for fair competition, allowing it to pass.
- Estimated patent valuation and damages worth hundreds of millions of dollars for alleged IP infringement.
- Calculated restitution using consumer account overdraft data and ensured restitution methodology complied with federal regulations for a case filed by the CFPB and the OCC against a national U.S. bank.

Skills

- Coding: Python (NumPy, pandas, matplotlib, geopandas, SciPy); SQL; Stata; SAS
- Tools: Latex; Microsoft Excel, PowerPoint, Word; Tableau
- Data Analysis and Modeling: data validation, cleaning, manipulation, visualization, summary statistics; application, interpretation, and validation of regression models (OLS, logistic, quantile, 2SLS, difference-in-differences); instrumental variables; GMM; causal inference

Expected Graduation: 12/2025

Education

University of Washington, Seattle

Seattle, WA

Ph.D. in Economics, specialized in applied microeconomics

and causal inference

M.A. in Economics

University of California, Berkeley

Berkeley, CA

B.A. in Economics, Departmental Honors

Expected Research Publications

• Housing Affordability, Supply, and Spatial Misallocation with Eric S. Wang (University of Washington), presented at the Western Economic Association International 100th Conference (June 2025)

- Evaluates a City of Seattle tax incentive program for rental housing developers to build inclusionary zoning (IZ) housing
- Provides evidence for the City's program trade-off between affordability and geographic coverage
- Finds highly heterogeneous effects of IZ on nearby rents by tract median income, using a novel detailed micro-dataset on Craigslist rental listings
- Modeling Methods: Spatial difference-in-differences, causal inference
- Coding Skills: Python (pandas, matplotlib, geopandas, SciPy), Stata
- Working paper: https://econ.washington.edu/sites/econ/files/documents/research/NgWang_MFTE_Paper.pdf
- To Lease in the Short or Long Term? Homeowners' Sharing Economy Exit Decisions Amid COVID-19 Uncertainty, presented at the Western Economic Association International 99th Conference (June 2024)
 - Studies investment property owners' substitution between Airbnb and the residential rental housing supply for investment using COVID-19 pandemic as a natural experiment.
 - Finds a policy implication that municipalities should impose stricter regulations on short-term vacation rentals to address the upward pressure of the supply of Airbnb rentals on residential housing rents.
 - Modeling Methods: Regression models (OLS, 2SLS, difference-in-differences with a continuous treatment), instrumental variables, causal inference
 - Coding Skills: Python (pandas, matplotlib), Stata
 - Working paper: https://econ.washington.edu/sites/econ/files/documents/job-papers/20241122_Ng_JMP.pdf

References

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