

KSENIIA NIKITINA

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PROFILE

M.A. candidate in Economics at New York University with research experience in labor economics, applied microeconometrics, and causal inference. Co-authoring a publication-track paper on housing code enforcement and economic outcomes; conducting independent empirical work on AI exposure and labor productivity. Seeking doctoral study to advance research at the intersection of labor markets, personnel economics, and applied microeconomic theory.

RESEARCH INTERESTS

Labor economics, personnel economics, game theory, decision-making under uncertainty, behavioral economics, and applied microeconomics.

EDUCATION

New York University, Graduate School of Arts and Science New York, NY

M.A. in Economics September 2025 to May 2027 GPA: 3.71/4.00

Relevant Coursework: Mathematical Analysis (Courant), Advanced Mathematical Economics, Machine Learning, Econometrics, Applied Statistics, Advanced Microeconomics, Advanced Game Theory, Macroeconomics, Behavioral Economics, Data Visualization (Stern).

University of California, Santa Barbara Santa Barbara, CA

B.A. in Economics; Minor in Translation Studies August 2023 to June 2025 GPA: 3.76/4.00

Dean's Honors List; Distinction in Translation Studies.

Relevant Coursework: Labor Economics, Personnel Economics, Game Theory, Monetary Economics, Economic Development.

Post-graduation courses (UC Irvine, Summer 2025): Linear Algebra, Multivariable Calculus.

De Anza College Cupertino, CA

A.A.-T in Economics September 2020 to December 2022 GPA: 3.76/4.00

RESEARCH PROJECTS

Code Enforcement, Housing Violations, and Economic Outcomes in New York City

Collaboration with a Ph.D. Student in Epidemiology, NYU | 2026 to Present

- Co-authoring a publication-track paper examining the economic impact of housing code enforcement on landlords and corporate property owners; objective is to inform tax and penalty policy that improves housing quality, tenant outcomes, and accountability across New York City.
- Built and executed an R (tidyverse) data pipeline processing over 2.65 million DCWP enforcement records (2000 to July 2023) and approximately 2,537 OLPS labor enforcement matters (2014 to 2024) sourced from NYC Open Data; applied violation type filters across 19 distinct fee categories with documented data quality checks.
- Quantified that DCWP issued approximately \$1.44 billion in penalties across 521,517 violations over the full study period; estimated \$615.6 million collected and \$828.4 million uncollected; derived a 42.6 percent collection rate from payment records.
- Identified a 2010 data anomaly (\$541M recorded versus a \$15M to \$45M annual baseline); separately analyzed OLPS civil penalties (\$5.9M) and worker restitution (\$47.8M) for a municipal revenue gap analysis with policy implications for renter protection and housing finance.
- Leading the literature review and authoring the introduction; synthesizing interdisciplinary research across economics, public health, and urban housing policy.

The Effect of Artificial Intelligence Exposure on Labor Productivity

Independent Research | 2026

- Examined whether AI exposure increases labor productivity across U.S. industries using a two-way fixed-effects panel model (59 industries, 1997 to 2024, 1,649 observations); theoretical framework grounded in Acemoglu and Autor (2011) and Acemoglu and Restrepo (2018, 2019); AI exposure measured via AIOE and AIIE indices (Felten, Raj, and Seamans, 2021).
- Extended the AIIE from a static cross-sectional measure to a time-varying panel input by rebuilding it annually from OEWS occupational employment shares (2016 to 2024); paired aggregate AIIE with an Early-AI period (2016 to 2019) and a language-modeling AIIE with a Mature/Generative-AI period (2020 to 2024), scaling each by an index of frontier AI capability based on the Artificial Analysis Intelligence Index and LLM token-pricing data.
- Estimated a two-way fixed-effects model with industry and year fixed effects; controls include ICT capital contribution, non-ICT capital contribution, energy contribution, and a work-from-home $\times$ COVID interaction; diagnostic tests include F-test for fixed effects,

Hausman test (FE vs. RE), Breusch-Godfrey serial correlation test, Pesaran CD test, and Wald tests; standard errors clustered at the industry level.

- Found no statistically significant effect of Early-AI or Mature-AI exposure on log labor productivity: the preferred Mature-AI estimate is 0.023 (standard error 0.364), with a confidence interval spanning sizable gains and losses; significant positive estimates appear only without year fixed effects or with a lagged dependent variable, which the paper argues are not credible. Because identifying variation for the Mature-AI term is concentrated in 2022 to 2024, any generative-AI effect was not yet detectable through 2024.

Determinants of Renewable Energy Adoption, Global Panel of 100+ Countries

Independent Research | 2025

- Independently constructed a multi-source global panel dataset; applied causal inference and econometric modeling to identify policy, economic, and institutional drivers of renewable energy adoption across emerging and developed markets.
- Authored a research paper presenting the empirical strategy, findings, and policy implications; produced written analysis and data visualizations for an academic audience.

TECHNICAL SKILLS

- **Programming and Data:** Python (pandas, NumPy, scikit-learn, matplotlib, seaborn), R (tidyverse, dplyr, ggplot2), Stata, SQL, Excel (advanced); reproducible analytical workflows.
- **Econometric Methods:** Causal inference; panel data methods, two-way fixed effects, seemingly unrelated regression (SUR), simultaneous equation models; time series analysis (serial correlation, nonstationary data); limited dependent variable models (binary choice, multinomial choice, censoring, sample selection); instrumental variables, GLS, first differences, Hausman tests, clustered standard errors.
- **Machine Learning:** Supervised learning: regression and shrinkage methods (Ridge, LASSO, Elastic Net, Principal Components), classification (logistic regression, linear discriminant analysis), generalized additive models, tree-based methods (random forests, boosting), support vector machines, neural networks and deep learning; unsupervised learning: clustering and dimensionality reduction; reinforcement learning; model selection, bias-variance tradeoff, regularization; NLP (LDA, BERTopic, Named Entity Recognition); LLM tooling (LangChain, OpenAI API, RAG).
- **Languages:** English (fluent), Russian (native), Spanish (intermediate).

TEACHING AND MENTORING

Personal Tutor, Economics, Mathematics, and English 2020 to 2025

- Delivered individualized instruction to diverse learners over five years; designed structured learning plans and communicated complex quantitative concepts to students at varying levels of technical preparation.

Introduction to Pedagogy

NYU Arts and Science Office of Teaching Excellence and Innovation January to February 2026

- Completed 16 hours of graduate pedagogy training; developed a teaching philosophy statement, a student-centered syllabus, and a comprehensive assessment strategy; engaged with pedagogical theories including constructivism, behaviorism, and cognitivism and their application in higher education.

CERTIFICATES

- **UCSB Extension**, Certificate in Strategic Investments: Portfolio Management, Fixed Income, Financial Statement Analysis, Risk Management, Mergers and Acquisitions.
- **Stanford Center for Professional Development**: Building Business Models; Team Collaboration.