

# MIKE (JIAFANG) HUANG

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442 Warren Hall, Ithaca, NY, 14850

## EDUCATION

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### Cornell University

Ph.D. Applied Economics and Management

*Expected Dec 2024*

- Dissertation Committee: Ivan Rudik (chair), Nicholas J. Sanders, Wendong Zhang
- Research Interests: environmental economics, climate change, natural disasters, sea level rise, real estate

### University of Illinois at Urbana-Champaign

B.A. Economics, B.S. Statistics

*May 2019*

## PUBLICATION

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“A Thousand Cuts: Cumulative Lead Exposure Reduces Academic Achievement”, with Alex Hollingsworth, Nicholas J. Sanders, and Ivan Rudik (Forthcoming), *Journal of Human Resources*.

- Media Coverage: The 74, Tradeoffs, The Hill, Econofact, The Guardian

## WORKING PAPERS

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### “Flood Risk Information and Real Estate Investors’ Behavior: Evidence from New York City”, Job Market Paper

**Abstract:** Using repeat sales difference-in-differences approach, this paper examines the impact of flood risk information on property prices in commercial and residential real estate. Significant price declines after Hurricane Sandy were primarily in properties not expected to be affected by flooding. These declines are enduring, with prices not returning to pre-flood levels even ten years later. Higher damage levels, lower flood insurance take-up rates, and increased out-migration of financially well-off individuals explain this dominant effect among unexpectedly flooded properties. While not directly measuring the benefits of improved flood risk prediction, a back-of-the-envelope calculation suggests that had the unexpectedly flooded properties been expected, around \$220 million in 2022 value would have been saved.

## WORK IN PROGRESS

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### “After the Storm Surge: Hurricanes, Local Crime Rate and Federal Disaster Relief”

**Abstract:** Hurricanes are the costliest natural disasters in the United States, causing significant direct economic losses and substantial negative externalities. This paper estimates the impact of hurricanes on a frequently overlooked social issue: local crime rates. The findings reveal that hurricanes increase larceny or stolen property crime by 7.2%, burglary by 9.9%, robbery by 19.6%, and overall property crime by 6.7%, resulting in an average social cost of \$27,960 per county. Additionally, the increase in crime is more prevalent in areas with lower socioeconomic status and higher heterogeneity. The study also evaluates the efficiency and effectiveness of current federal assistance programs and estimates the benefits of mitigation project investments.

## PROFESSIONAL EXPERIENCES

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### Syngenta

*Data Science Intern*

*May 2024-Aug 2024*

- Utilize cutting-edge machine learning and deep learning methodologies within genotype-environment interaction studies to enhance crop phenotype prediction accuracy.
- Conduct comprehensive testing and validation of the HapGP deployment within the Genomic Selection Microservice, ensuring robust functionality, accuracy, and performance compliance with industry standards.

- Perform thorough testing of HYPRAD and HYPR2 Java codebases, ensuring code quality, functionality, and adherence to software development best practices through unit testing, integration testing, and debugging.

## **Bunge**

*Jun 2023-Aug 2023*

### *Data Science Intern*

- Collected over 100 million rows of weather data and performed supervised machine learning techniques to enhance crop yield predictions by evaluating the precision of long-term weather forecasts in Python.
- Converted high-dimensional data into insightful visualizations while implementing automation to streamline the generation of spatial and temporal patterns.
- Communicated results, opportunities, and caveats with the company's executives and global teams by hosting weekly meetings and facilitating company's dashboard.

## **OTHER RESEARCH EXPERIENCE**

Graduate Research Assistant, Prof. Ivan Rudik

*Dec 2019-Aug 2022*

Graduate Research Assistant, Prof. Todd Gerarden

*Sep 2022-Nov 2022*

## **TEACHING EXPERIENCES**

AEM 4150, Price Analysis

*Fall 2019*

AEM 4940, Economics of Vice and Corruption

*Spring 2020*

AEM 6325, Leadership and Management in Sports (Graduate)

*Fall 2022*

AEM 4510, Environmental Economics

*Spring 2023*

AEM 2500, Environmental and Resource Economics

*Fall 2023*

AEM 6940, Introduction to Machine Learning (Graduate)

*Spring 2024*

## **AWARDS**

George F. Warren Award for outstanding paper (2 out of 50+ Ph.D. students)

*Apr. 2023*

Edward and Janet Heslop Fellowship

*May 2022*

## **LANGUAGE AND SKILLS**

**Softwares:** R, Python, Julia,  $\text{\LaTeX}$

**Language:** Chinese (native), English (fluent), French (classroom)

**Citizenship:** Chinese

## **REFERENCES**

### **Ivan Rudik (chair)**

Associate Professor

Charles H. Dyson School of Applied Economics  
and Management

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### **Nicholas J. Sanders**

Associate Professor

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### **Wendong Zhang**

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