

# Nay Petrucelli

e: [nayp3@illinois.edu](mailto:nayp3@illinois.edu) — w: [nayp3.github.io](https://nayp3.github.io) — [linkedin.com/in/naypetrucelli](https://linkedin.com/in/naypetrucelli)

## PROFESSIONAL INTEREST

Strategic analyst with 5+ years professional experience applying a range of analytical tools to improve outcomes and processes. Skilled in building solutions around client needs and communicating across technical knowledge and role. Highly collaborative and results oriented, I bring strong personal accountability and integrity. Proactive and self-motivated to grow and achieve at the highest level. **Available for immediate relocation.**

## EDUCATION

University of Illinois, Urbana, IL — Current GPA: 4.0 — MS Statistics — Completing Dec. 2025

- Top 25 statistics masters programs
- Current Research: Topic modeling, BERT (NLP) research on human rights norm diffusion in UN speeches with [Gino Pauselli, PhD](#) (R, R Shiny, Python)
- Previous research: "Governing the Taste of Thai: Complexity, Authenticity, & Institutional Dynamics in Gastrodiplomacy" with [Phrueksaphong Visuthduangdusdee, PhD](#)
- Summer data visualization project in Tableau with [Citizens for Juvenile Justice](#) (Boston)
- Built program in Python to manage small business operations and financial statements
- Team awarded third place in Synchrony Financial's [DataThon](#) (financial modeling):

*Feedback: "This team demonstrated one of the highest understandings of how to deal with data sets. They accurately explain the complexities associated with each one of their steps. They were able to superbly communicate how they rationalized their approach to the problem"*

Illinois State University, Normal, IL — GPA: 4.0 — MS Political Science — 08/2016

- Stevenson Center Fellow for Applied Community and Economic Development
- Thesis: "A Quantitative Analysis of Sex Trafficking Law on the Decriminalization of Youth Involved in Commercialized Sex" PDF: <http://ir.library.illinoisstate.edu/etd/593>
- Conducted community needs assessments in Lima, Peru and Illinois, U.S.A.

John Jay College of Criminal Justice, New York, NY — GPA: 3.9 — BS Criminal Justice — 05/2009

- Vera Institute of Justice Fellow; Salutatorian

## RESEARCH AND ANALYSIS EXPERIENCE

Dir. of EEO Data and Hiring Compliance — Indiana University, Indy, IN — 10/2022-12/2023

- **Led full-cycle, large-scale workforce analyses** with competing priorities and 100 percent on-time delivery. Routinely presented complex statistical and policy information to leadership in actionable and accessible way (Excel, Stata, SQL)
- Designed and executed analyses based on business needs of colleagues across campus. **Worked with complex methodological challenges**, including inconsistent data coding and datasets without common keys

- Designed and maintained **interactive dashboards** to deliver insights to leadership regarding employee experiences (Excel, Tableau)
- **Bridged technical gap between front line staff and IT** teams, translating between business needs and technical documentation
- **Proactively build partnerships across campus and beyond** to address system issues, improve data integrity, and pilot new process improvement initiatives
- **Data Stewardship** for highly sensitive personnel data, ensuring data security and managing requests for data access
- **Co-presented (on conference invitation) at leading national HR conference** on innovative approaches to embedding employee data analytics in decision-making

Data and Compliance Specialist — Indiana University, Indianapolis, IN — 8/2018-9/2022

- Produced all analyses and reports required of the Indianapolis campus under set of federal regulations, including: cleaning and conducting analyses with internal data, constructing models of the local labor market with external data sources, interpret regulatory guidance in data decision-making, and produce analyses with recommendations based on findings
- Rebuilt compliance program for federal (U.S.) anti-discrimination regulations, including **full traceability and justification for every data source** and weighting used in our models
- Oversaw the exit survey process for all exiting full time employees (Qualtrics)
- **Identified systematic data errors and engaged cross-team for a resolution.** Results include a change in a campus strategic initiative and over 60 percentage point increase in accuracy for one metric

Field interviewer (Part-time) — Mathematica, Philadelphia, PA — 11/2017-12-2017

- Interviewed shoppers regarding dietary habits for a diabetes-related study using survey protocol
- Adjusted outreach approach depending on local population, environment, and safety considerations for each location assigned

Graduate Student Fellow — Housing Action Illinois — 9/2014-7/2015

- Developed survey tool, led project strategy, and conducted interviews for a comprehensive review of all federally-approved client management systems to assist non-profit agencies in deciding on a platform to meet their needs
- Authored the policies and procedures for \$300K federal grant, consistent with federal regulations and evaluation criteria, sub-granted to 12 affiliated housing counseling organizations
- Co-chaired compliance sub-committee for a national network of housing counseling intermediaries

## TEACHING AND EDUCATION EXPERIENCE

Professional Dev. Coordinator — Mazzoni Center, Philadelphia, PA — 6/2017-7/2018

- Managed professional conference logistics; conducted trainings
- **Built client relationships** and designed educational programs to meet needs

Math Instructor — Mathnasium — 2/2017-7/2017

Graduate Assistant — Illinois State University, Normal, IL — 8/2013-7/2014

- Graduate Teaching Assistant: Assisted students with lab assignments in data literacy and visualization (POL138 - Quantitative Reasoning in Political Science)
- Graduate Research Assistant: Prepared manuscripts for journal submission

Educator — NYC Dept. of Education, NYC, NY — 9/2009-6/2013

Corps Member — City Year New York (AmeriCorps), Queens, NY — 8/2006-6/2007

## **SOFTWARE/CODING/LANGUAGE**

R, SQL, SAS, Stata, Excel, Access, SPSS, Tableau, Python, GitHub

**English** - Fluent | **Spanish** - Intermediate | **Thai** - Low intermediate

## **SELECT PRESENTATIONS**

Visuthduangdusdee, P., **Petrucelli, N.** 2024. "Governing the Taste of Thai: Complexity, Authenticity, & Institutional Dynamics in Gastrodiplomacy" Council on Thai Studies. Athens, OH. Paper forthcoming.

Mitchell, A., **Petrucelli, N.** 2022. Decoding DEI Data: How Analysis Can Lead to Action. *CUPA-HR Webinar*. Virtual.

Bichsel, J., Mitchell, A., Nadel, S., **Petrucelli, N.**, Ross, L. 2021. Moving From Talk to Action in Your Diversity, Equity, and Inclusion Efforts. *Association for Institutional Research Forum*. Virtual.

**Petrucelli, N.** Sep. 2016. Data Driven Policy and Juvenile Prostitution in Illinois. *2016 IL Problem Oriented Policing Conference*, Naperville, Illinois.

**Petrucelli, N.** May 2016. Using Data to Understand the Impact of Trafficking Laws on Juveniles. *Stevenson Center for Community and Economic Development*, Normal, Illinois.