



## LOIZOS BITSIKOKOS

Beering Hall, Room 2115  
100 N University Street  
West Lafayette, IN 47907-2098, USA  
[lbitsiko@purdue.edu](mailto:lbitsiko@purdue.edu)

### EDUCATION

---

#### **Purdue University, West Lafayette, IN, USA**

PhD, Communication; Expected August 2029  
Concentrations: Media, Technology, and Society  
Advisor: Prof. Jeremy Foote

#### **University of Chicago, Chicago, IL, USA**

MA, Computational Social Science; June 2024  
Concentration: Sociology  
Thesis: "Decoding Desire: A Multimodal Study of Adult Video Content and Algorithms"  
Advisors: Prof. Michael Rossi, Dr. Pedro Alberto Arroyo

#### **National Technical University of Athens, Athens, Greece**

MSc, Mathematical Modelling in Modern Technologies & Financial Engineering; February 2022  
Concentration: Mathematics of Data Science  
Thesis: "User influence studies in online social networks"  
Advisor: Prof. John Coletsos

BSc/Integrated Master's in Applied Mathematics and Physics; November 2018  
Concentrations: Nuclear & Particle Physics and Theoretical & Computational Physics  
Thesis: "Electron Cloud Computational Studies"  
Advisor: Prof. Konstantinos Anagnostopoulos

### PUBLICATIONS UNDER REVIEW

---

**Bitsikokos, L.** (2025). From Tokens to Meaning: A Computational Grounded Theory Analysis of Porn Video Categories [Manuscript submitted for publication, under revision].

Clipperton, J. and **Bitsikokos, L.** (2024). *You don't get to tell me about sad: Swiftian Saudade in Taylor Swift's lyrics* [Manuscript submitted for publication, under review].

### CONFERENCE PRESENTATIONS

---

**Bitsikokos, L.** and Stolzenberg, R.M. (2025, June). *Mapping Justice: A Social Network Analysis of U.S. District Court Citations* [Conference presentation, accepted]. *International Network for Social Network Analysis Sunbelt*, Paris, France.

Akom, M., Sawyer, H., **Bitsikokos, L.**, Reed, A. L., Ojike, F. C., Ofori Boateng, P., Nwoko, O. B., Mohammed, I. and Lee, S. (2025, June). *GIFTS: Welcome Aboard: Simulating an Outsider-Within's Organizational Assimilation and Socialization through Role-Play* [Conference presentation, accepted]. *Annual International Communication Association (ICA) Conference*, Denver, Colorado, USA.

Clipperton, J. and **Bitsikokos, L.** (2025, April). *You don't get to tell me about sad: Swiftian Saudade in Taylor Swift's lyrics* [Conference presentation]. 82nd Annual Midwest Political Science Association Conference, Chicago, Illinois, USA.

Clipperton, J. and **Bitsikokos, L.** (2025, April). *You don't get to tell me about sad: Swiftian Saudade in Taylor Swift's lyrics* [Conference presentation]. CGSA Conference, West Lafayette, Indiana, USA.

**Bitsikokos, L.** (2024, May 30). *Living in the Hub: A Platform Study of Desire Semantics* [Conference session]. 9th UChicago Interdisciplinary MA Research Conference, Chicago, IL, United States.

**Bitsikokos, L.** (2023, November 30). *Decoding Desire: Assessing Bias in Algorithmic Adult Video Recommendations* [Conference session]. Computational Social Science Workshop at The University of Chicago, Chicago, IL, United States.

**Bitsikokos, L.,** Papst, F., Schueller, W. (2022, June 9-10). *Brief Analysis of the Rust Ecosystem* [Conference session]. CEU-CSH Meeting. Vienna, Austria.

**Bitsikokos, L.,** Iadarola, G., Sabato, L. (2018). *Secondary electron emission models in e-cloud buildup simulations: from lab to the code*. [Paper presentation] ECLLOUD 18 Conference, Isola D'Elba, Italy.

## POSTER PRESENTATIONS

**Bitsikokos, L.** and Stolzenberg, R.M. (2025, June). *Mapping Justice: Data Collection on U.S. District Court Citational Networks* [Poster presentation, accepted]. *International School and Conference on Network Science (NetSci)*, Maastricht, Netherlands.

**Bitsikokos, L.** and Helbing, J. (2025, April). *Meaning Orthogonality in Embedding Spaces: A Geometric Approach* [Poster presentation]. Purdue College of Liberal Arts Research Showcase, West Lafayette, Indiana, USA.

## RESEARCH IN PROGRESS

**Bitsikokos, L.** (2025, July). *Meaning Orthogonality in Embedding Spaces: A Geometric Approach* [Manuscript in preparation]

Akom, M., Sawyer, H., **Bitsikokos, L.**, Reed, A. L., Ojike, F. C., Ofori Boateng, P., Nwoko, O. B. , Mohammed, I. and Lee, S. (2025). *Welcome Aboard: Simulating an Outsider-Within's Organizational Assimilation and Socialization through Role-Play* [Manuscript in preparation].

Footte, J., Kumar, D., Jha, B., Funkhouser, R., **Bitsikokos, L.**, Goel, H., and Hsuen-Chi C. (2025). *Taming toxic talk: Using chatbots to intervene with users posting toxic comments* [Manuscript in preparation].

Footte, J., Kumar, D., Goel, H., **Bitsikokos, L.** (2025). *Running Reddit Experiments with Conversational AI Agents* [Manuscript invited for publication in Special Issue, in preparation]

## RESEARCH EXPERIENCE

### **Brian Lamb School of Communication, West Lafayette, IN**

*Data Scientist, Aug 2024 – Present*

Assisting **Prof. Jeremy Foote** and **Prof. Deepak Kumar** (UCSD) with the data analysis aspect of the **Toxic Talk Project** a study aimed at assessing the efficacy of AI agents in reducing toxic discourse online

### **Division of the Social Sciences, University of Chicago, Chicago, IL**

*Graduate Research Assistant, Sept 2023 – June 2024*

- Assisted **Prof. Ross Stolzenberg** in research around mechanisms of acquiring power and authority in the US district court judiciary through studying citational links in a large-scale corpus of legal documents
- Data collection and pre-processing of legal documents (court decisions)
- Conducted network analysis studies of social and citation networks using Python, Gephi, and legal citation analysis tools

*Graduate Research Assistant, Sept 2023 – Jun 2024*

- Assisted **Prof. Jean Clipperton** in the data collection, record linkage, and sentiment analysis of a dataset of Taylor Swift's lyrics targeted around her artistic and personal narrative.
- Administrative assistance updating the program's website content, copywriting, and reviews.

- Research assistance (literature reviews, data collection, research design, methodology) with an agent-based modeling project around housing inequality

Graduate Research Assistant (Environmental Neuroscience Lab), March 2023 – Sept 2023

- Project: Contagion of emotional sentiment in urban environments
- Developed a large-scale computing model of sentiment contagion for cities using a Big-Data database (Postgres) of geolocated tweets in Python (NumPy, pandas, requests, matplotlib, seaborn, bs4, psycopg2).

**Complexity Science Hub Vienna, Vienna, Austria**

Visiting Student Intern / Researcher, June 2022 – July 2022

- Project: Complexity in Open-Source Software Ecosystems
- Assisted **Dr. William Schueller** with the development of a GitHub data acquisition repository in Python for Rust programming language.
- Supported project investigating the impact of a weekly newsletter featuring a Rust repository on the acquired GitHub social network metrics (e.g., stars, forks, downloads).

**National Technical University of Athens, Athens, Greece**

Graduate Researcher, Master's Thesis, September 2021 – February 2022

- Examined user influence in online social networks (Twitter); Completed extensive literature review.
- Analyzed open-source data set using Network Analysis including Twitter specific and traditional centrality measures, PageRank-based algorithms, Python (NetworkX, NumPy, Pandas, Matplotlib, Seaborn).
- Conducted correlation studies.
- Authored 100+ page manuscript, "Studies of User Influence in Online Social Networks (ONS)".

**European Organization for Nuclear Research (CERN), Geneva, Switzerland**

Researcher / Technical Student, September 2017 – September 2018

- Studied Electron Cloud phenomena for Large Hadron Collider (LHC) using the PyECLOUD simulation code.
- Collaborated with BE-Hadron Synchrotron Collective Effects, Electron Cloud, & Heat Load Task Force.
- Attended weekly meetings and presented research progress.
- Participated in trainings, workshops, and courses.

**TEACHING EXPERIENCE**

---

**University of Chicago, Chicago, IL**

Teaching Assistant, Social Network Analysis, Spring 2024

- Served as a TA for the social network analysis class taught by Prof. Sabrina Nardin; developed class materials, graded assignments, advised students on coursework, and provided support.

Teaching Assistant, Foundations for Statistical Theory, Fall 2023

- Served as a TA for the statistics class taught by Prof. Yanyan Sheng; graded assignments, advised students on coursework, and provided support.

Teaching Assistant, Computing for the Social Sciences, Fall 2023

- Served as a TA for Prof. Sabrina Nardin's computing class for social scientists; graded assignments and provided support.

Teaching Assistant, Computational Math Camp, August 2023

- Served as a TA for the MACSS Math Camp taught by Prof. Jean Clipperton; graded assignments, advised students on coursework, and provided support.

Teaching Assistant, Computing for the Social Sciences, June 2023

- Served as a TA for Prof. Jean Clipperton's Computing for the Social Sciences course; graded assignments, advised students on coursework, and provided support.

### **Two Pi Rho Tutoring and Self-Employed, Athens, Greece**

*Physics and Math Instructor, September 2018 – September 2019*

- Taught physics, math, and calculus to a group of ten high school students.

### **AWARDS, FELLOWSHIPS & SCHOLARSHIPS**

---

**College of Liberal Arts Dean's Graduate Fellowship** for 2024 – 2030

**Onassis Foundation Scholarship** for 2024 – 2027

**The University of Chicago Tuition Scholarship** for 2023 – 2024

**Onassis Foundation Scholarship** for 2023 – 2024

**International House Fellowship** for 2023 – 2024

**Phoenix Research Scholarship** for 2022 – 2023

**Social Sciences Opportunity Scholarship** for 2022 – 2023

**MA Program Research Scholarship** for 2022 – 2023

**Limmat Stiftung Award** for graduating 4<sup>th</sup> out of 93 students for 2018 – 2019

### **ADDITIONAL TRAINING**

---

**The AI Con: How to Fight Big Tech's Hype and Create the Future We Want - workshop and talk by Dr. Alex Hanna, West Lafayette, IN, USA**

*April 2025*

**Systems and Disruptions Purdue Undergraduate Philosophy Conference, West Lafayette, IN, USA**

*March 2025*

**Organizational Communication Mini Conference (OCMC), Evanston, IL, USA**

*Sept 2024*

**Frontiers in Online Community Research Symposium, Purdue University, West Lafayette, IN, USA**

*Sept 2024*

**Political Theory Summer School, Institute for the Radical Imagination, Kasos, Greece**

*July 2022*

**Extra-terrestrial Ethnographies of the Future-Present, The Stavros Niarchos Foundation Public Humanities Initiative, Athens, Greece** (*Ethnography seminar organized by Columbia University, University of Thessaly, and Athens Zine Bibliotheque*)

*November 2020*

**CERN Inverted School of Computing, Geneva, Switzerland**

*March 2018*

**Joint Universities Accelerator School (JUAS), The European Scientific Institute, Archamps, France**

*January 2018*

**Education in the Era of Information Technology, Neos Pedagogos, Athens, Greece**

*November 2015*

### **PROFESSIONAL EXPERIENCE**

---

**Intralot Tech S.A. (multinational tech management firm)**

*Backend Software Engineer, January 2020 – July 2022*

- Developed algorithms and probability models for sports betting; Built software for global distribution.
- Performed data analysis, parameter tuning, and evaluation for models, QA software testing, and bug fixes.
- Developed and tested cash-out algorithms and risk analysis.

- Served as a Member of an AGILE team of software engineers, mathematicians, and statisticians.

## LANGUAGES

---

- Greek (Native)
- English (Fluent)
- German (Intermediate)
- French (Basic)

## RESEARCH INTERESTS & SKILLS

---

- **Research Interests:** Computational Social Science, Platform Studies, Algorithms and Society, Algorithmic Bias, Media and Society, Semiotics, Organizational Communication, Theory
- **Skills:** Quantitative & Computational Methods, Data Collection, Statistical Analysis, Network Analysis, Programming, Software Engineering, Database Engineering, Project Management, Data Cleaning, Visualization, Record Linkage, Large-scale computing (AWS), Writing, Literature Reviews
- **Technical:** Python, R, Java, Mathematica, FORTRAN, MATLAB, LaTeX, Git, SQL, Minitab, Office 365, Jira, Unix
- **Creative Pursuits:** Jazz Saxophone (Intermediate), Poetry, Zines

## REFERENCES

---

Available upon request