

# *Ongoing Research*

Fall 2023

## Moses A. Boudourides

- Ongoing Projects (October 2023):
  - Breiger's duality in multilayer and temporal bipartite graphs: [https://github.com/mboudour/var/blob/master/Boudourides\\_MultilayerDualityAbstract.pdf](https://github.com/mboudour/var/blob/master/Boudourides_MultilayerDualityAbstract.pdf)
  - Complex network-based classification of images using fractal dimension and quadtree compression (with Konstantinos Tsirikolias)
  - Criminal justice in the age of AI: Addressing bias in predictive algorithms used by courts (with Chieh Yi and Rahulrajan Karthikeyan)
  - Networks of Covid symptoms in Reddit discussions (with Kanishk Tanotra)
  - Social network analysis of the multilayer graph of entries in Knight's "Encyclopedia of Conspiracy Theory in American History" (with Dimitris Lenis and Divy Kamlesh Patel)
  - Preference aggregation through degree centrality indices (with Jeova Farias)
  - Bibliometric analysis of publications on "Chat GPT" and "large language models" from the dimensions.ai database (2022-2023) (with Aline Maestas and Evan Piepho).
  - Michel Foucault in the Cambridge Lexicon and ChatGPT (with Chenchen Zhang): <https://medium.com/@mosabou/michel-foucault-in-the-cambridge-lexicon-and-chatgpt-996bb09892e0>
- Github Repositories: <https://github.com/mboudour>
- Github Blog: <http://mboudour.github.io/>
- Medium Blog: <https://medium.com/@mosabou/>
- Python-based Computational Social Network Analysis: <https://nbviewer.jupyter.org/github/mboudour/var/tree/master/CompSocialNetworkAnalysis/>
- Presentations at the Networks 2021 Conference: <https://drive.google.com/drive/folders/1mq40o3RG6FGPRMtESC-e9BiAdypsTGUM?usp=sharing>
- Presentations at the EUSN 2021 Conference: <https://github.com/mboudour/var/blob/master/CNAG.pdf>
- Slideshare Presentations: <https://www.slideshare.net/MosesBoudourides>
- R Projects (github): <https://github.com/mboudour/R-Projects>