Cong Mu

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Education

Johns Hopkins University (Baltimore, MD)   08/2017 – 05/2023
Advisor: Carey Priebe | **Dissertation:** Chernoff Information in Community Detection
Doctor of Philosophy | **Major: Applied Mathematics and Statistics**
Master of Science in Engineering | **Major: Applied Mathematics and Statistics**
Master of Science in Engineering | **Major: Computer Science**

Sun Yat-Sen University (Guangzhou, China)   08/2013 – 06/2017
Bachelor of Science | **Major: Statistics** | **Minor: Finance**

Research Experience

- **Mu, C.**, Park, Y., & Priebe, C. E. (2023). Dynamic Network Sampling for Community Detection. Applied Network Science. [Paper] [Preprint]

- **Mu, C.**, Mele, A., Hao, L., Cape, J., Athreya, A., & Priebe, C. E. (2022). On Spectral Algorithms for Community Detection in Stochastic Blockmodel Graphs with Vertex Covariates. IEEE Transactions on Network Science and Engineering. [Paper] [Preprint] [R Package]

- Chen, L., Huang, N., **Mu, C.**, Helm, H. S., Lytvynets, K., Yang, W., & Priebe, C. E. (2022). Deep Learning with Label Noise: A Hierarchical Approach. [Preprint]

- Priebe, C. E., Huang, N., Villar, S., **Mu, C.**, & Chen, L. (2022). Deep Learning is Provably Robust to Symmetric Label Noise. [Preprint]

- Li, Z., Wan, B., **Mu, C.**, Zhao, R., Qiu, S., & Yan, C. (2024). AD-aligning: Emulating Human-like Generalization for Cognitive Domain Adaptation in Deep Learning. 2024 5th International Conference on Electronic Communication and Artificial Intelligence (ICECAI). [Paper] [Preprint]

- **Mu, C.**, & Budavári, T. (2018). Dash Cam Video Analysis: Laptimes and Beyond. Poster presented at 2018 IDIES Annual Symposium. [Poster]

- Crockett M., **Mu, C.**, & Dahbura, A. T. (2018). Predictive Analytics for Patient Mobility Using AM-PAC. Poster presented at 2018 Johns Hopkins Research Symposium on Engineering in Healthcare. [Poster]

Professional Experience

Data Scientist | Microsoft (Redmond, WA)   07/2023 –
- AI-powered tools and data solutions through cloud service.

Data & Applied Scientist Intern | Microsoft (Redmond, WA)   05/2022 – 08/2022
- General guideline of pre-training and fine-tuning language models. [[Blog]](#)

Data & Applied Scientist Intern | Microsoft (Remote)   06/2021 – 08/2021
- Language models pre-training for selected languages and fine-tuning.

Analyst Intern | GF Fund Management (Guangzhou, China)   11/2016 – 04/2017
- Feature selection and model development for market prediction.

Honors & Awards

MINDS Data Science Fellowship, Johns Hopkins University	2021 & 2022 Spring
Creel Family Engineering Fellowship, Johns Hopkins University	2019 – 2020
University Scholarship for Outstanding Student, Sun Yat-Sen University	2014 – 2016