Jakob J. Schoeffer

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Education

Karlsruhe Institute of Technology (KIT) — Karlsruhe, Germany
PhD in Information Systems — *Oct. 2019 – present*

Georgia Institute of Technology — Atlanta, GA, USA
MS in Operations Research — *May 2017*

Karlsruhe Institute of Technology (KIT) — Karlsruhe, Germany
BS in Industrial Engineering and Management — *Feb. 2015*

Peer-Reviewed Publications

[1] **Schoeffer, J.**, Kuehl, N., Valera, I. (2021). *A ranking approach to fair classification*. ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS '21)

[2] **Schoeffer, J.**, Machowski, Y., Kuehl, N. (2021). *A study on fairness and trust perceptions in automated decision making*. Transparency and Explanations in Smart Systems (TExSS) Workshop at the 26th Annual Conference on Intelligent User Interfaces (ACM IUI 2021)

[3] Hemmer, P., Kuehl, N., **Schoeffer, J.** (2020). *DEAL: Deep evidential active learning for image classification*. 19th IEEE International Conference on Machine Learning and Applications (ICMLA)

Work under Review or in Press

[1] **Schoeffer, J.**, Machowski, Y., Kuehl, N. (2021). *"There is not enough information": On the effects of transparency on perceptions of informational fairness and trustworthiness in automated decision making*. Under review

[2] **Schoeffer, J.**, Machowski, Y., Kuehl, N. (2021). *Perceptions of fairness and trustworthiness based on explanations in human vs. automated decision-making*. Finally accepted at 55th Hawaii International Conference on System Sciences 2022 (HICSS-55)

[3] **Schoeffer, J.**, Kuehl, N. (2021). *Appropriate fairness perceptions? On the effectiveness of explanations in enabling people to assess the fairness of automated decision systems*. Poster Publication at 24th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '21)

[4] **Schoeffer, J.**,* Ritchie, A.,* Naggita, K.,* Monachou, F.,* Finocchiaro, J.,* Juarez, M. (2021). *Online platforms and the fair exposure problem under homophily*. Poster at ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO '21)
(* denotes equal contribution)

[5] Baier, L., Schloer, T., **Schoeffer, J.**, Kuehl, N. (2021). *Detecting concept drift with neural network model uncertainty*. Under review

Relevant Experience

Research Associate — Oct. 2019 – present
Karlsruhe Institute of Technology (KIT) — *Karlsruhe, Germany*

- Research on fairness, accountability and transparency in AI-based decision making
- Project work on AI-based service ecosystems, funded by the Federal Government
- Teaching of *Digital Services* and *AI in Service Systems*

(Senior) Data Scientist — July 2017 – Aug. 2019
International Business Machines Corp. (IBM) — *Armonk, NY, USA*

- Worked at the Chief Analytics Office, supporting IBM's C-suite
- Developed and implemented statistical and machine learning models for decision support
- Managed team of 5 data scientists and consultants
- Co-led team's recruiting efforts, both strategy and execution

Research and Teaching Assistant — Sept. 2013 – Aug. 2016
Karlsruhe Institute of Technology (KIT) — *Karlsruhe, Germany*

- Worked as a RA and TA in the field of mathematical optimization
- Offered tutorials to >100 undergraduate and graduate students
- Graded assignments and exams in mathematical optimization and stochastic modeling

Other

Current Extracurricular Work:

- MD4SG (Bias, Discrimination, and Fairness working group) project lead since Mar. 2020
- Data Science for Social Good (DSSG) Solve volunteer since July 2020

Academic Service: Program committee (PC) member at ACM EAAMO '21, reviewing at various conferences

Programming: Python, Java, SQL, R, MATLAB

Honors & Awards: Full-ride graduate scholarship (USA) by the German Academic Exchange Service (DAAD); Manager's Choice Award (IBM); IBM Chief Analytics Office Eminence & Excellence Award; Research travel grant (USA) by the Karlsruhe House of Young Scientists (KHYS)

Hobbies (sample): Outdoor sports, climbing, biking, squash, cooking, photography, design, modern art, music

As of October 14, 2021