

# Jakob J. Schoeffer

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## EDUCATION

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### Karlsruhe Institute of Technology (KIT)

*PhD in Information Systems*

Karlsruhe, Germany

*Oct. 2019 – present*

### Georgia Institute of Technology

*MS in Operations Research*

Atlanta, GA, USA

*May 2017*

### Karlsruhe Institute of Technology (KIT)

*BS in Industrial Engineering and Management*

Karlsruhe, Germany

*Feb. 2015*

## PEER-REVIEWED PUBLICATIONS

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- [1] **Schoeffer, J.**, Kuehl, N. (2021). *Appropriate fairness perceptions? On the effectiveness of explanations in enabling people to assess the fairness of automated decision systems*. Companion Publication of the 2021 Conference on Computer Supported Cooperative Work and Social Computing (CSCW '21)
- [2] **Schoeffer, J.**, Kuehl, N., Valera, I. (2021). *A ranking approach to fair classification*. ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS '21)
- [3] **Schoeffer, J.**, Machowski, Y., Kuehl, N. (2021). *A study on fairness and trust perceptions in automated decision making*. Transparency and Explanations in Smart Systems (TESS) Workshop at the 26<sup>th</sup> Annual Conference on Intelligent User Interfaces (ACM IUI 2021)
- [4] Hemmer, P., Kuehl, N., **Schoeffer, J.** (2020). *DEAL: Deep evidential active learning for image classification*. 19<sup>th</sup> IEEE International Conference on Machine Learning and Applications (ICMLA)

## WORK UNDER REVIEW OR IN PRESS

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- [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 55<sup>th</sup> Hawaii International Conference on System Sciences 2022 (HICSS-55)
- [3] **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)
- [4] Baier, L., Schloer, T., **Schoeffer, J.**, Kuehl, N. (2021). *Detecting concept drift with neural network model uncertainty*. Under review

## RELEVANT EXPERIENCE

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### Research Associate

*Karlsruhe Institute of Technology (KIT)*

Oct. 2019 – present

*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

*International Business Machines Corp. (IBM)*

July 2017 – Aug. 2019

*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

*Karlsruhe Institute of Technology (KIT)*

Sept. 2013 – Aug. 2016

*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

**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