

# Jakob J. Schoeffer

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## EDUCATION

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<b>Karlsruhe Institute of Technology (KIT)</b> <i>PhD in Information Systems</i>	Karlsruhe, Germany Oct. 2019 – present
<b>Georgia Institute of Technology</b> <i>MS in Operations Research</i>	Atlanta, GA, USA May 2017
<b>Karlsruhe Institute of Technology (KIT)</b> <i>BS in Industrial Engineering and Management</i>	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.,\* Finocchiario, 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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<b>Visiting Researcher</b> <i>The University of Texas at Austin</i> <ul style="list-style-type: none"><li>• Research project at the intersection of explainability and fairness in AI-based decision making</li><li>• Collaboration with Prof. Maria De-Arteaga</li></ul>	Jan. 2022 – present Austin, TX, USA
<b>Research Associate</b> <i>Karlsruhe Institute of Technology (KIT)</i> <ul style="list-style-type: none"><li>• Research on fairness, accountability and transparency in AI-based decision making</li><li>• Project work on AI-based service ecosystems, funded by the Federal Government</li><li>• Teaching of <i>Digital Services</i> and <i>AI in Service Systems</i></li></ul>	Oct. 2019 – present Karlsruhe, Germany
<b>(Senior) Data Scientist</b> <i>International Business Machines Corp. (IBM)</i> <ul style="list-style-type: none"><li>• Worked at the Chief Analytics Office, supporting IBM's C-suite</li><li>• Developed and implemented statistical and machine learning models for decision support</li><li>• Managed team of 5 data scientists and consultants</li><li>• Co-led team's recruiting efforts, both strategy and execution</li></ul>	July 2017 – Aug. 2019 Armonk, NY, USA

## 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

## OTHER

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### 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, '22; TExSS Workshop @ ACM IUI '22 ; TRAIT Workshop @ ACM CHI '22
- Reviewing at various conferences (e.g., ACM CSCW, ICIS, HICSS)

**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 February 25, 2022