

# Ann-Katrin Reuel – Resume

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## Research Interests

Computer scientist with a business and operations research background. My goal is to advance cross-disciplinary research in AI safety focusing on the implementation of AI ethics such that the technology becomes practicable, accessible and understandable.

## Experience (Selection)

Research Fellow June 2021 – ongoing

**Stanford Intelligent Systems Laboratory, Stanford University, US**

- Conducted research on how to use reinforcement-learning-based adaptive stress testing to identify ethical dilemmas in autonomous systems with Prof. Mykel Kochenderfer

Research Assistant January 2021 – ongoing

**World Well-Being Project, University of Pennsylvania, US**

- Led a project with 4 researchers to develop single- and multi-task natural language processing models in Python to detect self-disclosure across corpora with Prof. Lyle Ungar

Founder & CTO January 2018 – April 2020

**Busche & Reuel GbR, Germany**

- Co-developed a machine-learning-based prototype in Python with 2 engineers to analyze body movements in 3D and provide feedback to users in real time (a digital personal trainer)

Industry Internships September 2013 – August 2021

**See LinkedIn for full details**

- Celonis SE, Germany: Process AI Engine Product Management (3 months)
- Allianz AG, Germany: Investment Strategy Development (4 months)
- Deutsche Bank AG, Germany: Supply Chain Finance Product Management (4 months)

## Education

M.Sc. Candidate, Computer Science 2020 – Ongoing

**University of Pennsylvania, US**

Major field of study: artificial intelligence; research & thesis track, current GPA: 4.0/4.0

Graduate Courses, Software Engineering 2017

**Harvard Extension School & Harvard Graduate School of Arts and Sciences, US**

Major field of study: artificial intelligence, GPA: 3.96/4.0 (top 5%)

M.Sc., Management & Strategy 2015 – 2016

**London School of Economics, UK**

Major field of study: game theory & finance

Grade: Merit, thesis: *Valuation of R&D Expenditures in the Software Industry*

B.Sc., Economic Sciences 2011 – 2015

**University of Hagen, Germany**

Major field of study: operations research & finance, **studied parallel to high school**

Grade: 1.4/6.0 (top 1%, best grade: 1.0), thesis: *Applications of the VDAX New*

International Baccalaureate 2011 – 2013

**Stiftung Luisenlund, Germany**

Grade: 40/45 (top 5% worldwide)

## Papers

Reuel, A., Peralta, S., Sedoc, J., Sherman, G., & Ungar, L. (2021). Measuring the Language of Self-Disclosure across Corpora. *Submitted to the 60th Annual Meeting of the Association for Computational Linguistics.\**

Reuel, A. & Eder, T. (2021). Detection and Mitigation of Political Bias in Natural Language Processing: A Survey. *Submitted to the 60th Annual Meeting of the Association for Computational Linguistics.\**

Reuel, A., Koren, M., Corso, A., & Kochenderfer, M. (2022). Using Adaptive Stress Testing to Identify Paths to Ethical Dilemmas in Autonomous Systems. *Accepted to the AAAI's Workshop on Trustworthy Autonomous Systems Engineering 2022.*

\*Link to pre-print will be available on my website after the anonymity period.

## Skills & Focus Areas (Selection)

- Societal implications of AI
- Design of ethical autonomous systems
- Making (responsible) AI accessible to businesses
- AI for social good
- Programming languages
  - Python (esp. Pytorch, sklearn) *Advanced*
  - Coq *Intermediate*
  - Java, R, AWS (EC2, S3) *Beginner*
- Languages
  - German, English C2
  - Chinese, Spanish A1

## Awards

Hans Weisser Scholarship, 2020 – 2022

DAAD Scholarship, 2020 – 2022

Gen-ZEO Top Talent Under 25 Award, 2019

Future Victress Award, 2018

Young Titans Scholar, 2018

German National Academic Foundation Scholarship, 2013 – 2019

Luisenlund Scholarship, 2011 – 2013

## Voluntary work (Selection)

Fairness of Algorithms Working Group

**ThinkTech e.V., Germany**

📅 April 2021 – Ongoing

- Organizing workshops, talks, and training programs for developers and managers to raise awareness and demonstrate hands-on examples for practical AI ethics

Mentor for Careleavers & Jury Member for Awake Fellowship

**Brückensteine e.V. and others, Germany**

📅 May 2014 – Ongoing

- Mentored care leavers (young people who grew up in foster care like me) and helped them navigate life after foster care, esp. scholarship and university applications
- Acted as jury member to choose talented care leavers for a one-year fellowship

President

**Management & Strategy Society, LSE Student Union, UK**

📅 September 2015 – September 2016

- Led a team of 10 directors, coordinating the organization of career-related events for our 400 members
- Supervised various consulting projects for NPOs

Teacher & Supervisor

**Various NGOs, China, Honduras, Colombia & Ecuador**

📅 November 2011 – September 2017

- Taught English & Math in Latin America & China
- Worked in children's homes and street children projects