ALINA HERDERICH

Graz University of Technology, Institute of Interactive Systems and Data Science | PhD Candidate

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EDUCATION

2021 - today	**PhD (Dr. rer. nat.) Computer Science** Graz University of Technology, Institute of Interactive Systems and Data Science, Computational Social Science Lab Austria Advisor: Prof. David Garcia Thesis: Construct-ER: A computational approach to the development of emotion regulation theory and measurement
2019 - 2020	**Computer Science Certificate** (25 ECTS), Route 63 Graz University of Technology Grade: 1.0 (12th March 2020)
2018 - 2020	**M.Sc. Psychology** University of Graz Advisor: Prof. Harald Freudenthaler Thesis: How Does Flexibility in Emotion Regulation Relate to Dimensions of Adaptivity? Development and Validation of a New Measure for ER Repertoire and Flexibility. Grade: 1.1 (30th September 2020)
2016 - 2018	**B.Sc. Psychology** University of Graz Grade: 1.3 (19th March 2018)
2013	**Chinese Language & Culture Studies** (20 ECTS), exchange semester Shanghai Normal University Grade: 90/100
2011 - 2015	**B.Sc. Business Psychology & Economics** University of Lüneburg Grade: 1.5 (24th March 2015)
2011	**Abitur** (German university entrance qualification) Albert-Schweitzer-Gymnasium Crailsheim Grade: 1.0 (07th July 2011)

QUALIFICATIONS

Natural Languages	German (mother tongue), English (C1), Chinese (B2), French & Spanish (~A2)
Programming Languages	Python, SQL
Prizes	High-School Diploma Prize of the German Mathematical Association

RESEARCH EXPERIENCE

09/2023 - 08/2024	**Visiting Fellow** @Harvard Business School [Goldenberg Lab]
2021 - today	**Doctoral Researcher** @Graz University of Technology
2021 - today	**Cooperation** with **Prof. Mirta Galesic @Santa Fe Institute**, New Mexico, USA Research project on the effectiveness of counter speech strategies in online political discourse under the NSF grant *Exploration-exploitation tradeoff and opinion diversity in real-world groups* (Award ID: 1757211)
2018	**Research Internship** (3 months) Charité Universitätsmedizin Berlin, Department of Anesthesiology and Operative Intensive Care Medicine (CCM/CVK) Biomarker Development for Postoperative Cognitive Impairment in the Elderly (www.biocog.eu)

TALKS

07/2023	International Conference for Computational Social Science (IC2S2) 2023 *Improving discourse quality in online discussions: A large-scale, longitudinal study of influencing speech characteristics*
07/2023	International Conference on Network Science (NetSci) 2023 *Improving discourse quality in social media networks: A large-scale, longitudinal study of influencing speech characteristics*
06/2023	**Chinese Bridge Competition Austria**, 2nd place Language competition hosted by the Confucius Institute Vienna *'One World, One Nation' (天下一家) through the eyes of a psychologist*
08/2022	European Forum Alpbach Alpbach Technology Talks hosted by the Austrian Institute of Technology *Breaking the Wall of Emotional Well-Being*
06/2022	Conference of the **Consortium of European Research on Emotion** (CERE 2022) *Deriving emotion regulation strategy classes using a computational grounded theory approach*
05/2022	**Falling Walls Lab Austria**, 2nd place Competition, pitching an innovative research idea in just three minutes *Breaking the Wall of Emotional Well-Being*

TEACHING

2021	**Workshop: A psychologist's guide to machine learning** University of Zurich, for researchers at the department of psychology
2020	**Teaching Assistant** Databases & Data Management Graz University of Technology

FUNDING

2023 - 2024	**Agency for Education and Internationalisation Austria, OeAD (19,920 €)** *Marietta Blau Scholarship* to support visiting fellow activity at Harvard University in the academic year of 23/24 (partially claimed)
2023 - 2024	**Marshall Plan Foundation Austria (10,000 €)** Scholarship to support visiting fellow activity at Harvard University in the academic year of 23/24
2023 - 2024	**German Academic Scholarship Foundation (24,300 USD)** *ERP scholarship* to support visiting fellow activity at Harvard University in the academic year of 23/24 (partially claimed)

ADDITIONAL QUALIFICATIONS

07/2022	**Complexity-GAINs summer school** (2 weeks) Santa Fe Institute, New Mexico & Complexity Science Hub, Vienna Disintegration of societies: Quantitative modeling of complex socio-behavioral systems
2019 - 2021	**Data Team** Graz University of Technology Participating in data science challenges in teams / ASHRAE - Great Energy Predictor III (How much energy will a building consume?) / Jigsaw Multilingual Toxic Comment Classification (Identify toxic online comments.) / HuBMAP - Hacking the Kidney (Identify glomeruli in images of the human kidney.)

SERVICE

2022 - today	**Doc School Speaker** and elected member of the **PhD Union** Student representative for the student body of the Doctoral School of Computer Science, and all PhD students at TU Graz

OUTSIDE ACADEMIA

2015 - 2016	**GGH Mullen Lowe Hamburg** (advertising agency) Junior strategic planner E.ON, Seat, Fielmann, international new business
2015	**FCB Hamburg** (advertising agency, 6 months) Strategic planning internship NIVEA, international level
2014	**Publicis Pixelpark** (advertising agency, 6 months) Strategic planning internship Barmer GEK, Telekom, VISA, BNP Paribas, Swarovski

PUBLICATIONS

Lasser, J.*, Herderich, A.*, Garland, J., Aroyehun, S. T., Garcia, D., & Galesic, M. (2023). Collective moderation of hate, toxicity, and extremity in online discussions. https://arxiv.org/abs/2303.00357

Herderich, A., Freudenthaler, H. H., & Garcia, D. (2023). A Computational Method to Reveal Psychological Constructs from Text Data. https://psyarxiv.com/s64tm

* shared first authorship