

# ALINA HERDERICH

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

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## EDUCATION

2021 - today	<b>PhD (Dr. rer. nat.) Computer Science</b> 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	<b>Computer Science Certificate</b> (25 ECTS), Route 63 Graz University of Technology Grade: 1.0 (12th March 2020)
2018 - 2020	<b>M.Sc. Psychology</b> 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>B.Sc. Psychology</b> University of Graz Grade: 1.3 (19th March 2018)
2013	<b>Chinese Language &amp; Culture Studies</b> (20 ECTS), exchange semester Shanghai Normal University Grade: 90/100
2011 - 2015	<b>B.Sc. Business Psychology &amp; Economics</b> University of Lüneburg Grade: 1.5 (24th March 2015)
2011	<b>Abitur</b> (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

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

## TALKS

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

## TEACHING

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

## FUNDING

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

## ADDITIONAL QUALIFICATIONS

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07/2022	<b>Complexity-GAINS summer school (2 weeks)</b> Santa Fe Institute, New Mexico & Complexity Science Hub, Vienna Disintegration of societies: Quantitative modeling of complex socio-behavioral systems
2019 - 2021	<b>Data Team</b> 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

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2022 - today	<b>Doc School Speaker</b> and elected member of the <b>PhD Union</b> Student representative for the student body of the Doctoral School of Computer Science, and all PhD students at TU Graz
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## OUTSIDE ACADEMIA

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

## PUBLICATIONS

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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>

\* shared first authorship