

Julius Herzig

University of Hamburg
Chair of Statistics / Hamburg Center for Health Economics
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RESEARCH INTERESTS

Machine learning with applications in health care and economics.
Developing methods for causal inference.
Evaluating digitalisation projects in health care.

EDUCATION

PhD, Statistics Oct. 2023 - Today
University of Hamburg, Germany
Supervised by Prof. Martin Spindler and Prof. Tom Stargardt
Part of Research Training Group "Quality of Care" funded by the German Research Association
Academic Tutor in Statistics and Mathematics

Master of Science, Computer Science Oct. 2021 - Oct. 2022
Imperial College London, United Kingdom
Distinction
THESIS - Development of an Image Analysis Algorithm for Building Integrity Assessment after Earthquakes
In cooperation with the Mexican NGO Centro de Inteligencia y Voluntario
Department of Computing Corporate Partnership Programme Award for Academic Excellence

Secondary Enrollment, Mathematics Mar. 2020 - Mar. 2021
RWTH Aachen, Germany
28 ECTS (approx. equivalent course load for one semester)
Not counting towards degree

Exchange, Aerospace Engineering Aug. - Dec. 2019
University of Illinois - Urbana Champaign, United States

Bachelor of Science, Aeronautical Engineering Sept. 2017 - Aug. 2021
University of Applied Science Hamburg, Germany
THESIS - Analysis and Evaluation of a Non-Conventional Rear Fuselage Structure in a Hydrogen Concept Aircraft Fritz-Kirchberg Förderpreis and Preis for outstanding academic performance
Teaching Assistant in Technische Mechanik II (Strength of Materials)
Elected as Head of House Council in student residence and Head of Expo Team

International Baccalaureate Diploma Jul. 2017
King William's College, Isle of Man

PUBLICATIONS AND CONFERENCE PRESENTATIONS

- Herzig J., Klaassen S., Spindler M. 'Revisiting Health Applications with Double Machine Learning: New Insights with ML in Complex Data'. 2025. Accepted at German Health Economics Conference, Annual Conference of the American Society of Health Economics and International Health Economics Congress.
- Olivares Ferrer AJ, Linke M, Herzig J. 'Influence of friction on the position of the rupture line in thin-walled Carbon-Fibre-Reinforced-Polymer laminates under Compression-After-Impact testing'. 2021; International Conference on Computations for Science and Engineering.

PROFESSIONAL EXPERIENCE

Future Projects Engineer, Multidisciplinary Airframe Development Aug. 2021 – Sept. 2023
Airbus Operations GmbH

Dual Student in Aeronautical Engineering Sept 2017 – Aug. 2021
Airbus Operations GmbH
Sponsored degree with placements both on the shopfloor and in various departments

LANGUAGES

Native: German
Full working proficiency: English
Basic: French
Latin, Ancient Greek

MEMBERSHIPS

Committee for Econometrics, German Health Economics Association

AWARDS AND SCHOLARSHIPS

Studienstiftung des Deutschen Volkes (German Academic Scholarship Foundation)
Deutscher Akademischer Austauschdienst (German Academic Exchange Service)

VOLUNTEERING

Certified Youth Worker
Deutscher Alpenverein Sektion Hamburg (German Alpine Club Hamburg Chapter)
Leading weekly meetings of youth group
Organising trips for outdoor activities in Germany and abroad

Treasurer
Jugend des Deutschen Alpenvereins - Nord (German Alpine Club Youth Association North)
Setting budget and managing expenses (annual turnover approx. 50 000 €)
Organised employment of part-time assistant and managing all associated duties

Last revised: 14/04/2025