Viviane Herdel

RESEARCHER
WRITER

Kfar Saba, Israel

Innovative Thinker
Dedicated Team Player
Empathetic Communicator
Analytical Mindset
Curious Learner

✉ herdelv@gmail.com
📱 +972 533 912 926
in LinkedIn
⊕ Portfolio
✕ Twitter

METHODS

- Writing in German & English
- Quantitative research methodologies (e.g., survey sampling and design, significance testing, regression modeling, experimental design, behavioral data analysis)
- Data manipulation and analysis in R, Python, Matlab
- Executing hands-on, primary research
- Inferential and multivariate statistical methods (e.g., GLM, hierarchical linear (random effects) modeling
- Data visualization
- Communicating research findings (written reports, presentations) to cross-functional stakeholders

SOFTWARE, TOOLS & PROGRAMMING

- Python, Matlab, R
- SQL
- Figma, Inkscape, Canva
- Qualtrics
- Mechanical Turk
- LaTeX

TEACHING

Human-Computer Interaction for Mobile Application Design

Ben-Gurion University of the Negev, Israel, WS, 22/23

EDUCATION

Ph.D. in Human-Computer Interaction
Ben-Gurion University of the Negev, Israel
2020 – 2024

- Department of Industrial Engineering & Management
- Topic: Emotions in Human-Drone Interaction: Affective Perception and Appropriateness
- Advisors: Dr. Jessica Cauchard, Prof. Yisrael Parmet

Master (M.Sc.) in Neurocognitive Psychology
University of Oldenburg, Germany
2018 – 2020

- Highest grade with distinction
- Research visit in the Magic Lab for my Master's thesis: Human Response to Facial Expressions on Drones (highest grade)

Bachelor (B.Sc.) in Sensors and Cognitive Psychology
Chemnitz University of Technology, Germany
2013 – 2017

SELECTED PUBLICATIONS

V. Herdel and J. R. Cauchard. Crafting for Emotion Appropriateness in Affective Robotics: Examining the Practicality of the OCC Model. ACM on Human-Computer Interaction (PACM HCI), 2024. doi.org/10.1145/3676493

V. Herdel and J. R. Cauchard. Emotion Appropriateness in Human-Drone Interaction. Springer International Journal of Social Robotics, 2024. doi.org/10.1007/s12369-023-01094-x

V. Herdel, A. Kuzminykh, Y. Parmet and J. R. Cauchard. Anthropomorphism and Affective Perception: Dimensions, Measurements, and Interdependencies in Aerial Robotics. IEEE Transactions on Affective Computing, 2024. doi.org/10.1109/TAFFC.2024.3349858

V. Herdel, L. J. Yamin, and J. R. Cauchard. Above and Beyond: A Scoping Review of Domains and Applications for Human-Drone Interaction. ACM CHI, 2022. doi.org/10.1145/3491102.3501881 -- **honorable mention, top 5% --**

V. Herdel, A. Kuzminykh, A. Hildebrandt, and J. R. Cauchard. Drone in Love: Emotional Perception of Facial Expressions on Flying Robots. ACM CHI, 2021. doi.org/10.1145/3411764.3445495

V. Herdel, L. J. Yamin, E. Ginosar, and J. R. Cauchard. Public Drone: Attitude Towards Drone Capabilities in Various Contexts. ACM MobileHCI, 2021. doi.org/10.1145/3447526.3472053

CONFERENCE ORGANIZATION

- **ACM MobileHCI 2024**
  Workshop Organizer:
  "Affective Computing for
  Mobile Technologies"
  https://acimt.github.io/
- **ACM CHI 2024, 2022, 2021**
  Student volunteer
- **ACM CHI 2023**
  Subcommittee chair assistant
  & Student volunteer
- **ACM MobileHCI 2020**
  Student volunteer

LANGUAGES

- German – Native proficiency
- English – Full professional
  proficiency
- Hebrew – Limited working
  proficiency
- Spanish – Limited working
  proficiency

INTERESTS

- Traveling and getting to
  know new people and places
- New technology and design
  trends
- Psychology and personal
  development
- TED talks
- Meeting friends
- Surfing
- Nature and hiking
- Reading

SELECTED WORK EXPERIENCE

Data Science Researcher
Nokia Bell Labs, Cambridge, UK   internship 2023
- Conducting a scoping review of AI technologies
- Developing and evaluating a new methodology for mapping the
  risk landscape of AI technologies by utilizing LLMs
- Presenting work to key stakeholders, incl. President of Bell Labs
  Solutions Research at Nokia Bell Labs and other senior leaders

UX Researcher
Google, Munich, Germany   internship 2022
- Evaluating interfaces for mobile applications
  - Planning and executing usability tests and user interviews
  - Conducting and evaluating expert interviews
  - Designing and conducting large-scale online experiments
- Analyzing data to extract meaningful insights
- Communicating strategic insights and providing
  recommendations to multi-disciplinary stakeholders

UX Researcher
OFFIS – Institute for Information Technology,   2019 – 2020
Human-Centered Design Group, Oldenburg, Germany
- Conducting user interviews
- Performing user needs analysis through user-centered approach
- Creating user interface prototypes
- Discussing and iterating design concepts with stakeholders
- Scientific writing

Data Analyst
IAV GmbH, Chemnitz, Germany   2017 – 2017
Advanced Driver Assistance Systems
- Script-based partial automation of signal definitions
- Analysis of calibration accuracy of front camera

SCHOLARSHIPS & ACHIEVEMENTS

Recipient of the Outstanding Student Research Award
Nokia's Global Student Program   2023

Dean's List
Dean of the Faculty of Engineering (Ben-Gurion University)   2023

ACM-Women Scholarship Award
Association for Computing Machinery   2022

Invited speaker at Wing, a subsidiary of Alphabet Inc. that
develops technology of drone-based delivery
                                                      2022

Negev Tzin Scholarship for outstanding students
Ben-Gurion University of the Negev   2021 – present

**ABC Robotics Initiative – Agricultural, Biological & Cognitive
Fellowship for outstanding students**
ABC Robotics Initiative   2020 – present

Invited Workshop Instructor for Quantitative Data Analysis at the
Toronto Human-AI Interaction Summer Research School 2021 and
2022 (Canada). www.thai-rs.com/