Daniel Gedon

Curriculum Vitae, February 2020

Personal Data

Date of Birth:	11.05.1994 (Feuchtwangen, Germany)
Citizenship:	German

University Address:
    Uppsala University
    Department of Information Technology
    SE–751 05 Uppsala, Sweden

Home Address:
    Thunmansgatan 43
    SE-754 21 Uppsala, Sweden

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Research Interests

- Deep learning with meaningful and scalable uncertainty quantification
- Probabilistic models
- Bayesian methods
- Medical applications, e.g. ECG recordings

Academic Degrees

Bachelor of Engineering in Aerospace Engineering. 09/2012 - 09/2015.
    Baden-Württemberg Corporate State University, Germany.
    Cooperation with Airbus Defence & Space, Friedrichshafen (Germany).
    Thesis title: *Mission Based Cross Validation of the ESA Pointing Error Engineering Tool (PEET)*
    Supervisor: Thomas Ott

Master of Science in System and Control. 09/2017 - 07/2019.
    TU Delft, the Netherlands.
    Thesis title: *Tensor Network Kalman Filter for Large-Scale MIMO Systems*
    Supervisor: Michel Verhaegen

Professional Experience

Academia

WASP Ph.D. Student (08/2019 - Present)
    Uppsala University, Sweden
    Division of Systems and Control, Department of Information Technology

Supervisors: Thomas Schön, Uppsala University (Sweden), main supervisor
Niklas Wahlström, Uppsala University (Sweden)
Lawrence Murray, Uber AI (USA)
Topic: *Bayesian Methods in Deep Neural Networks* (in progress)
Founded by Wallenberg AI, Autonomous Systems and Software Project (WASP, *link*)
Expected end: 2024

Teaching Assistant, (10/2018 - Present)
- System Identification by Per Mattsson at Uppsala University
    2019/2020, Spring Semester
- Introduction to Computer Controlled Systems by Dave Zachariah at Uppsala University
    2019/2020, Spring Semester
- Filtering and System Identification by Michel Verhaegen at TU Delft
    2018/2019, Fall Semester

Industry

Satellite Attitude and Orbit Control System Analyst, (10/2015 - 09/2016)
    Airbus Defence and Space, Friedrichshafen, Germany
    Department: AOCS, GNC and Flight Dynamics

Personal Experience

Travel, (10/2016 - 04/2017)
    Long distance hike in Patagonia by myself (Greater Patagonian Trail, *link*).
    Backpacking and exploring new cultures.
    Studying Spanish (Sucre, Bolivia).

Voluntary Work, (04/2017 - 08/2017)
    Ansbach, Germany.
    Full-time work with primary school children, elderly and refugees.

Skills

Languages

German (mother tongue)
English (fluent)
Spanish (basic)
Swedish (basic)

Technical Skills (selection)

PyTorch, NumPy, Matlab, Simulink, C, Git, LaTeX, Linux

Publications

Main Author

D. Gedon, P. Piscaer, K. Batselier, C. Smith and M. Verhaegen, "Tensor Network Kalman Filter for LTI Systems," 2019 27th European Signal Processing Conference (EUSIPCO), A Coruna, Spain, 2019, pp. 1-5. *(Link here)*

Co-Author

Ott T., Hirth M., Casasco M., Goerries S., Gedon D., Ponche A., "PointingSat – High Precision Pointing Error Analysis with ESA PEET v1.0", 10th International ESA Conference on Guidance, Navigation & Control Systems, Salzburg, Austria, 2017. *(Link here)*