

SAEED SALEHI

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EDUCATION

M.S. in Computational Neuroscience Bernstein Center for Computational Neuroscience

Oct 2018 – Ongoing Berlin, Germany
Running GPA: 1.1 (equivalent of A / very good)

M.S. in Electrical Power Engineering Brandenburg University of Technology (B-TU)

Oct 2012 – Sept 2014 Cottbus, Germany
Cumulative GPA: 1.1 (equivalent of A / very good)

B.S. in Electrical Engineering Power and Water University of Technology (PWUT)

Sept 2005 – Oct 2010 Tehran, Iran

EXPERIENCE

Dynamic Stability Expert & Automator 50Hertz Transmission GmbH

Oct 2014 – Sept 2020 Berlin, Germany

- Modeling and development of dynamic networks for stability and control studies
- Development of Python tool-chain for automation and Optimization of dynamic Stability Analysis (OSA)
- Member of European Connection Network Code (CNC) working group and co-author of multiple regulatory guidelines and a technical paper

TA, Content reviewer & Waxer NMA Computational Neuroscience summer school

June – July 2020 NeuroMAtch Academy!

Research Assistant Ministry of Energy

2011 – 2012 Tehran, Iran

Developing the smart grid road map for energy market

Teaching Assistant and Instructor PWUT - B-TU


2008 – 2014 Tehran, Iran


TA for Linear Control Systems, Electrical Circuits, Electromagnetic and Power Electronics @ PWUT
Instructor of CYME Dist and PSCAD @ PWUT
Instructor of DIgSILENT PowerFactory @ B-TU


RESEARCH INTERESTS

- What cost functions drive our attention, questions and exploration; and How is it optimized?
- Machine learning for and from Neuroscience
- Causal inference and robust learning

LAB ROTATIONS

 **Prof. Richard Kempter's Lab**
Modeling ripple oscillations in networks of delayed inhibitory pulse-coupled oscillators

 **Prof. Henning Sprekeler's Lab**
Modeling motor cortex by training and analyzing recurrent neural networks

 **Dr. Wolf-Julian Neumann's Lab**
EEG and ECoG signal processing for closed loop deep brain stimulation with focus on waveform

PUBLICATIONS

- H. Urdal et al., "High Penetration of Power Electronic Interfaced Power Sources and the Potential Contribution of Grid Forming Converters" ENTSO-E joint technical report, 2019
- J. Weidner, R. Bauer, S. Salehi, "Control strategies of phase-shifting transformers in long term network development", International ETG Congress – Die Energiewende, Bonn, 2015
- M. S. Ghazizadeh, S. Salehi, and A. Shahmohammadi, "Design of Power System Stabilizer (PSS) based on Anchoring Zeros", accepted in Eighth IEEE International Conference on Control & Automation, 2010

STRENGTHS

Dynamic network modeling, simulation and analysis
Bayesian inference Control theory Programming
Eager to learn & teach

PROGRAMMING LANGUAGES

Python (+ few scientific libraries) ● ● ● ● ●
C++, Julia, VBA and PyQt ● ● ● ● ●
DIgSILENT Sim. and Prog. Languages ● ● ● ● ●

NATURAL LANGUAGES

Persian ● ● ● ● ●
English ● ● ● ● ●
German ● ● ● ● ●