

Darjan Salaj

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EDUCATION

**PHD STUDENT IN
COMPUTATIONAL NEUROSCIENCE**
Prof. Wolfgang Maass, HBP
since 2018

**MSc IN COMPUTER SCIENCE
WITH DISTINCTION**
Graz University of Technology
Apr 2017

BSc IN COMPUTER SCIENCE
Graz University of Technology
Sep 2015

LINKS

Github: github.com/dsalaj
Website: dsalaj.com

SKILLS

MACHINE LEARNING
Tensorflow • Numpy • pandas
Matplotlib • NEST

WEB - MOBILE
Django • PostgreSQL • NodeJS
LESS • handlebars • JQuery
Android • Vue.js • Flask • etc.

VISUAL
Photoshop • Illustrator
Gimp • InkScape • \LaTeX

LANGUAGES
Python • JavaScript • Java
Kotlin • C# • etc.

DEVOPS - OTHER
CI and CD with Jenkins • REST API
vim • bash • linux • OOP
slurm • HPC usage • tmux
Agile - Scrum • Unit Testing • TDD

COMMUNICATION

ENGLISH
fluent

GERMAN
advanced

Bosnian-Croatian-Montenegrin-Serbian
fluent

PUBLICATIONS

"Long short-term memory and learning-to-learn in networks of spiking neurons"
G. Bellec*, D. Salaj*, A. Subramoney*, R. Legenstein, W. Maass; NeurIPS (NIPS) 2018

EXPERIENCE

RESEARCH | DEEP LEARNING & COMPUTATIONAL NEUROSCIENCE
2018-now | Graz, AT | TUGraz IGI

- Research in the domain of recurrent artificial and spiking neural networks
- Collaborations with Intel Loihi team, SpiNNaker team of Manchester University, BrainScaleS team of Heidelberg University

MASTER THESIS | WORKING MEMORY IN SPIKING NEURAL NETWORKS
2017-2018 | Graz, AT | TUGraz IGI | Prof. Wolfgang Maass | Prof. Robert Legenstein

- "Spike-based LSTM-like Modules in Neural Networks"
- Tensorflow • recurrent neural networks

L2L | LEARNING TO LEARN FRAMEWORK
2017 | Graz, AT | TUGraz IGI

- Pypet based gradient-free Optimization framework
- Integration of NEST module SPORE as optimizer

MYTHING.COM | FULL-STACK WEB DEVELOPMENT | DJANGO
2015-2018 | Graz, AT

- 3D printing web platform
- Django • PostgreSQL • Docker • Celery • Jenkins • AWS • Scrapy

TUTORING | UNDERGRADUATE CLASSES
2014-2015 | Graz, AT | TUGraz ISDS | Prof. Keith Andrews

- Internet and New Media (2014/15 WS)
- Human-Computer Interaction (2015 SS, 2016 SS)

POCKET CODE | WEB DEVELOPMENT
2014-2015 | Graz, AT | TUGraz IST | Prof. Wolfgang Slany

- Web developer and designer for Catrobat project (developer.catrobat.org)

WINNING.AT | WEB DEVELOPMENT
2012-2013 | Graz, AT

- Web development using: handlebars, LESS, NodeJS and SQL.

OTHER

2018 Human Brain Project (HBP) summit @ Maastricht, Netherlands

- Intel INRC workshop @ Reykjavík, Iceland
- HBP SP9 workshop @ Fürberg am Wolfgangsee
- Learning to Learn workshop @ Fürberg am Wolfgangsee

2017 UX Days organizer (with prof. Keith Andrews) uxdaygraz2017.isds.tugraz.at

2015 UX Days organizer (with prof. Keith Andrews) uxdaygraz2015.isds.tugraz.at