

# Darjan Salaj

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## EDUCATION

**PHD STUDENT IN  
COMPUTATIONAL NEUROSCIENCE**  
Prof. Wolfgang Maass group  
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](https://github.com/dsalaj)  
Website: [dsalaj.com](https://dsalaj.com)

## SKILLS

### MACHINE LEARNING

libraries:

Tensorflow • NEST  
Numpy • Matplotlib

languages:

Python • C++

### WEB

technologies:

Django • PostgreSQL • NodeJS  
LESS • handlebars • JQuery

languages:

Python • JavaScript

### VISUAL

Photoshop • Illustrator  
Gimp • InkScape •  $\text{\LaTeX}$

## COMMUNICATION

### ENGLISH

fluent

### GERMAN

advanced

Bosnian-Croatian-Montenegrin-Serbian

fluent

## PAPERS

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

## EXPERIENCE

### RESEARCH | WORKING MEMORY IN SPIKING NEURAL NETWORKS

2017-now | Graz, AT | TUGraz IGI

- Master thesis "Spike-based LSTM-like Modules in Neural Networks" under supervision of Prof. Wolfgang Maass and Prof. Robert Legenstein
- Tensorflow

### MASTER PROJECT | LEARNING TO LEARN FRAMEWORK

2017 | Graz, AT | TUGraz IGI

- Contributing to LTL metalearning framework of IGI institute based on pypet.
- Implemented test functions optimizer and optimizer based on SPORE module for NEST.
- <https://github.com/IGITUGraz/LTL>

### MYTHING.COM | FULL-STACK WEB DEVELOPMENT

2015-2018 | Graz, AT

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

### TUTORING | UNDERGRADUATE CLASSES

2014-2015 | Graz, AT | TUGraz ISDS

- Tutoring for classes Internet and New Media (2014/15 WS) and Human-Computer Interaction (2015 SS, 2016 SS) under the supervision of Prof. Keith Andrews.

### POCKET CODE | WEB DEVELOPMENT

2014-2015 | Graz, AT | TUGraz IST

- Taking part in Catrobat project ([developer.catrobat.org](https://developer.catrobat.org)) as a designer and web developer, under supervision of Prof. Wolfgang Slany.

### WINNING.AT | WEB DEVELOPMENT

2012-2013 | Graz, AT

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

### SPIN | IT SERVICE

Summer of 2008/09/10 | Tuzla, BiH

- Maintaining and constructing networks for small to mid sized businesses.
- Assembly and reparation of computers.

## OTHER

2017 UX Days organizer (with prof. Keith Andrews) [uxdaygraz2017.isds.tugraz.at](https://uxdaygraz2017.isds.tugraz.at)  
2015 UX Days organizer (with prof. Keith Andrews) [uxdaygraz2015.isds.tugraz.at](https://uxdaygraz2015.isds.tugraz.at)