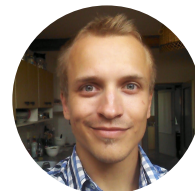


GUSTAV ŠÍR (ŠOUREK)

PhD student, Researcher

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in linkedin.com/in/gustav-sir ida.fel.cvut.cz github.com/GustikS



EXPERIENCE

SWE Intern

Google

Jun 2017 - Oct 2017 Zürich, Switzerland

- Development of novel deep learning models for Internet shopping
- Part of a wider cooperation project between Google DeepMind and Shopping
- Technologies: TensorFlow, Python, C++, MapReduce, Go

Research Intern

IBM Research

Aug 2014 - Nov 2014 Haifa/Tel-Aviv, Israel

- PoC for extending the Watson Q&A system towards non-factoid questions
- "Great Minds" program in the Machine Learning Technologies laboratory
- Technologies: Java, Matlab, Python

Visiting Researcher

University of York

Jun 2016 - Jul 2016 York, England

- Logic-based neural learning directed towards NLP & KBC applications
- Technologies: Java, Python

Researcher

Czech Technical University

Sep 2013 - Present Prague , Czech Rep.

- Developing novel machine learning algorithms for relational data domains
- e.g., network security, chemistry, biology, NLP and sports analytics
- Member of the Intelligent Data Analysis research group

Junior Analyst and Consultant

IBM

Sep 2013 - Dec 2014 Prague, Czech Rep.

- Creating prototypes of software solutions (with NLP)
- Member of the Smarter Content Analytics (iLab) group
- Technologies: Java, parts of IBM (Watson) products portfolio

MIS and Reporting analyst

Citibank Europe plc

Jun 2011 - Jul 2012 Prague, Czech Rep.

- Reporting processes automation & data analysis
- For the teams of MIS/Collections (Business intelligence)
- Technologies: VBA, MSSQL, SSIS, SAP BO

Junior technical analyst

DHL IT Services

Jun 2009 - Jul 2010 Prague, Czech Rep.

- Support of global processes/applications migration & virtualization
- Member of the Citrix technology and Build & Migration teams
- Technologies: .NET, VMware, Citrix

EDUCATION

Ph.D. in Artificial Intelligence

Czech Technical University

2013 - Present Prague , Czech Rep.

- focus: Deep and Statistical Relational Machine learning from structured data.
- thesis: Deep Learning with Relational Logic Representations

M.Sc. in Artificial Intelligence

Czech Technical University

2010 - 2013 Prague , Czech Rep.

- focus: Machine learning, Optimization, Data analysis, Soft computing
- thesis: Twitter's local trends spread analysis

B.Sc. in Intelligent Systems

Czech Technical University

2007 - 2010 Prague , Czech Rep.

- focus: foundations of Computer science and Software engineering
- thesis: Visual design of evolutionary algorithms

ABROAD

M.Sc. Exchange Student

National Taiwanese Uni. of Science & Tech.

Fall 2012 Taipei , Taiwan

- focus: Computer Science & Machine Learning

B.Sc. Exchange Student

Nanyang Technological University

Fall 2010 Singapore

- focus: Adv. Algorithms & Neural networks

TRAINING

"ATHENS" programme

Telecom ParisTech

Mar 2012 Paris , France

- intensive specialization exchange program
- focus: Emergence in complex systems

IBM "Smart University"

IBM CZ

Jun - Aug 2010 Prague, Czech Rep.

- within IBM content analytics technologies
- focus: "Smarter content specialist" (NLP)

PROJECTS

End-to-end learning of optimal portfolios

granted by Czech Science Foundation

Jan 2020 - Present

Czech Rep.

Researcher - Focus on principled combining of machine learning and subsequent (portfolio) optimization problems.

Deep Relational Learning

granted by Czech Science Foundation

Jan 2017 - Dec 2020

Czech Rep.

Researcher - Developing novel algorithms for transferring neural network methods into relational learning setting.

Machine learning for network security

funded by Cisco R&D

September 2013 - Dec 2015

Prague

Researcher - Developing machine learning methods and sound algorithms to detect malicious events from NetFlow traffic.

Machine learning methods for bio-informatics

granted by Czech Technical University

Jan 2017 - Present

Prague

Coordinator (PI) - Developing various novel machine learning methods for data analysis in bio-informatics (and beyond).



Lifted Relational Neural Networks

A custom framework for deep *relational* learning, written completely from scratch. github.com/GustikS/NeuraLogic

COMMUNITY

Faculty Advisor

Upsilon Pi Epsilon

Jan 2017 - Present

upe.cvut.cz

Coordinating Czech UPE Alpha Chapter activities, securing funding.

Tutor

Czech Technical University

Jan 2013 - Present

Prague

Machine Learning and Data Analysis, Functional and Logic Programming, Database Systems + Introduction to NLP from MatFyz.

Supervisor/Opponent

Czech Technical University

Jan 2015 - present

Prague

Supervised and reviewed more than 30 bachelor and diploma theses.

Reviewer

Journals and Conferences

Jan 2017 - present

International

Served as a (sub-)reviewer for journals and conferences, including TNNLS, AIJ, MLJ, CI, and IJCAI, ILP, and others.

LANGUAGES

Czech
English
German
Chinese
Russian
Spanish



TECHNICAL SKILLS

Machine Learning
Data Analysis
Algorithms
Optimization
NLP
Databases
Datalog
Java
Matlab
Python



AWARDS



Best paper @ ILP 2017

International Conference on Inductive Logic Programming



UPE Executive Council Award

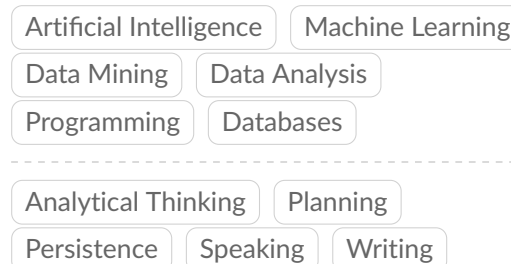
International Honor Society for the Computing and Information Disciplines endorsed by ACM & IEEE



Graduation with honors

summa cum laude both B.Sc. & M.Sc.

STRENGTHS



FEATURED

interview for magazine "Dotyk"

interview for Open Informatics

PUBLICATIONS

Over 20 publications with 150+ citations in international journals and conferences, including a US patent (status as of 2020). Please see my [G scholar profile](#)