

Ondřej Sotolář | Curriculum Vitae

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Summary

Ph.D. candidate researcher in Natural Language Processing (NLP) with focus on: tool-assisted Large Language Models, detection of psychological phenomena in dialogue, and personal data anonymization. Married, 2 children. Living in Zastávka u Brna and working in Brno, Czech Republic, EU.

Publications

- Calc-X: Enriching Arithmetical Chain-of-Thoughts Datasets by Interaction with Symbolic Systems. Under review in EMNLP 2023.
- Classification of Adolescents' Risky Behavior in Instant Messaging Conversations. In: AISTATS 2023
- Constructing Datasets from Dialogue Data. In: RASLAN 2022
- Researching the Links Between Smartphone Behavior and Adolescent Well-being With the FUTURE-WP4. In: JMIR research protocols 2022
- Testing innovative methods for research on children's technology usage. In ECREA 2021
- Detecting Online Risks and Supportive Interaction in Instant Messenger Conversations using Czech Transformers. In: RASLAN 2021
- Towards Personal Data Anonymization for Social Messaging. In: TSD 2021

Education

- **Ph.D. candidate** **Masaryk University, Faculty of Informatics, Brno**
currently ongoing, Jan 2023 awarded RNDr. *started in 2020*
- **Master's programme** **Masaryk University, Faculty of Informatics, Brno**
Mgr., Applied Computer Science *alumni 2019*
Dean's award for best master's thesis
- **Erasmus exchange** **KU Leuven, Faculty of Engineering science, Belgium**
-, Master's programme in Artificial Intelligence *2018*
- **Bachelor's programme** **Masaryk University, Faculty of Informatics, Brno**
Bc., Applied Computer Science *alumni 2017*

Awards and Honors

- **IOCB Tech Foundation, Prague**
Martina Roeselová Memorial Fellowship *2022*
- **Masaryk University, Faculty of Informatics, Brno**
Dean's award for best master's thesis *2019*

Past & current employment and contracts

- **Masaryk University, Faculty of Informatics** **Brno**
Ph.D. Researcher *Feb 2019–2023 end of year*
Researcher and full-stack developer for research team irtis.muni.cz. Research area: NLP, topics: personal data anonymization, detection of psychological phenomena in dialogue, tool-assisted Large Language Models. Tech used: Python, PyTorch, HuggingFace, Numpy, Pandas, scikit, and UDPipe. Support work includes designing Android, web, desktop, and server apps and infrastructure. Technologies used: Linux, PostgreSQL, Java, Spring Boot, Android, Python, JavaScript, and JavaFX. My Ph.D. duties include supervising and reviewing student thesis', preparing lectures and overall assisting with teaching.

- Czechitas**
Programming coach (C#) - part time
 Coaching an Introduction to C# course in the Fall 2017 semester.
 - Moravia IT s.r.o.**
Software developer (C#) - contract
 Development of integration solutions in C#. Technologies used: MSSQL, Entity framework, REST webservices, Hangfire, and others.
 - Home Credit International a.s. (EmbedIt)**
Software developer (C#,Java) - full time employee
 Automation and testing tools development, such as automated testing frameworks for .NET and Java, PL/SQL scripts, courses on automated testing for testers, CI (SVN, Jenkins with Windows and Linux hosts). Employee of the month for a data miner for QQ social network.
 - IReSoft s.r.o.**
Software developer (C#) - full time employee
 Information systems development (IS Cygnus 2). Technologies used: C#, nHibernate, MSSQL, WinForms, DevExpress, frontend. SCRUM.
 - CUPtech, s.r.o.**
Software developer (Java) - contract
 Part-time job in startup company. Development of backend for web applications on the Java platform.
 - ON Semiconductor a.s.**
Software developer (Java) - summer internship
 Web application development. Java, Spring for backend. Tapestry for frontend.
 - Quadbase Systems Inc.**
Software tester - contract
 Testing of client-server application on Java platform. Cooperation with international development team.

Brno
Oct 2017–Jan 2018

Brno
Mar 2017–Jun 2018

Brno
Feb 2014–Oct 2015

Brno
Jan 2013–Dec 2013

Brno
Sep 2011–Jan 2012

Rožnov pod Radhoštěm
summer 2011

home office (Jihlava)
Jun–Oct 2011

Projects

- TechniservIT s.r.o.**
Authentication library for .NET Core, C#, OAuth, OIDC

Brno
Jul 2018–Sep 2018

Other Certifications

- Deep Learning**
Certificate Id: TR26L9UBCJKE

Coursera
Oct 2021