

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.

Brno
Oct 2017–Jan 2018
- 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.

Brno
Mar 2017–Jun 2018
- 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.

Brno
Feb 2014–Oct 2015
- 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.

Brno
Jan 2013–Dec 2013
- CUPtech, s.r.o.**

 - Software developer (Java) - contract*
 Part-time job in startup company. Development of backend for web applications on the Java platform.

Brno
Sep 2011–Jan 2012
- ON Semiconductor a.s.**

 - Software developer (Java) - summer internship*
 Web application development. Java, Spring for backend. Tapestry for frontend.

Rožnov pod Radhoštěm
summer 2011
- Quadbase Systems Inc.**

 - Software tester - contract*
 Testing of client-server application on Java platform. Cooperation with international development team.

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