

Profir-Petru Pârțachi

E-Mail: me@partachi.com

Education	PhD in Computer Science	September 2016 – December 2020
	<i>Centre for Research on Evolution, Search and Testing</i>	<i>University College London, Gower Street, London WC1E 6BT</i>
	PhD Thesis: 'Improving Software Project Health Using Machine Learning' Supervised by Prof. Earl T. Barr (e.barr@ucl.ac.uk)	
	Computer Science Tripos	September 2013 – July 2016
	<i>King's College, University of Cambridge</i>	<i>Cambridge, United Kingdom</i>
	BA in Computer Science BA Thesis: 'Deck building in Hearthstone Using a Genetic Algorithm.'	
Work Experience	Post-doctoral Researcher	April 2022 – now
	<i>National Institute of Informatics</i>	<i>Chiyoda-ku, Tokyo, Japan</i>
	Research into the naturalness properties of structured representations of source-code. Supervised by Assoc. Prof. Mahito Sugiyama	
	Freelance Researcher	April 2021 – April 2022
	<i>National Institute of Informatics</i>	<i>Chișinău, Republic of Moldova</i>
	Research into the naturalness properties of structured representations of source-code. Consulting for Assoc. Prof. Mahito Sugiyama	
	Research Internship	October 2018 – April 2019
	<i>National Institute of Informatics</i>	<i>National Institute of Informatics, Tokyo</i>
	Worked on the efficient processing of spatiotemporal data for anomaly detection using Graph Kernels. Supervised by Assoc. Prof. Mahito Sugiyama	
	Hardware/Software Engineer Intern	June 2016 – September 2016
	<i>University of Cambridge</i>	<i>Computer Laboratory, University of Cambridge, Cambridge</i>
	Worked within the lowRISC team to provide:	
	<ul style="list-style-type: none">• Hardware implementations of DCT, IDCT and colour space conversions for MPEG2 as AXI-stream accelerators.• Hardware logic to interface AXI-stream accelerators with the lowRISC CPU chip.	
	Software Developer Intern	June 2015 – October 2015
	<i>Amazon Instant Video</i>	<i>London</i>
	Worked on providing an auditing infrastructure by:	
	<ul style="list-style-type: none">• Writing a plug-in to wrap calls to backend systems to log calls and responses.• Storing intercepted calls and pre-processing stored data in Amazon Redshift for auditing reports.	
Publications	[1] Pârțachi, P.-P., Dash, S. K., Allamanis, M., & Barr, E. T., Flexeme: Untangling Com-mits Using Lexical Flows . In <i>28th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, (ESEC/FSE 2020)</i> . Sacramento, California, United States; ACM, November, 2020; https://partachi.com/Flexeme	
	[2] Pârțachi, P.-P., Treude, C., Dash, S. K., & Barr, E. T., POSIT: Simultaneously Tag-ging Natural and Programming Languages . In <i>42nd International Conference on Software Engineering (ICSE '20)</i> . Seoul, Republic of Korea; ACM., July 2020; https://partachi.com/POSIT	

Teaching Experience	COMPM203 Verification and Validation <i>Teaching Assistant</i> Leading problem based workshops, assisting exam setting, and exam marking	January 2020 – July 2020 <i>University College London</i>
	COMP103P Applied Software Development <i>Teaching Assistant</i> Laboratory Supervisor and Group Project Supervisor	January 2018 – April 2018 <i>University College London</i>
	COMPM203 Verification and Validation <i>Teaching Assistant</i> Coursework writing and marking	January 2018 – April 2018 <i>University College London</i>
	COMP213P Systems Engineering <i>Teaching Assistant</i> Group Project Supervisor	October 2017 – April 2018 <i>University College London</i>

Awards	Cambridge Commonwealth Trust 2013-2014 <i>For the purpose of BA Computer Science Tripos at King's College, Cambridge</i>
	HMC Reduced Fee Scheme 2012 <i>For the purpose of attending Seaford College for UK A-levels</i>

Reviews	Conferences
	<ul style="list-style-type: none"> – Program Committee member for the Research Track at SANER 2022 – Sub-reviewing for ISSTA 2021 – Program Committee member for the Mining Challenge at MSR 2021 – Sub-reviewing for SANER 2021 – Sub-reviewing for ICSE 2021 – Sub-reviewing Registered Studies for ICSME 2020 – Sub-reviewing for ASE 2020 – Sub-reviewing for MSR 2020 – Sub-reviewing for FSE 2019 – Sub-reviewing for ISSTA 2019 – Sub-reviewing for ASE 2018 – Sub-reviewing for ECOOP 2018 – Sub-reviewing for ISSTA 2018 – Sub-reviewing for MSR 2017

Journals
<ul style="list-style-type: none"> – Reviewing for TOSEM 2022 – Reviewing for JSS 2022 – Reviewing for JSS 2021 – Reviewing for EMSE 2021 – Reviewing for MTAP 2020 – Sub-reviewing for EAAI 2020 – Sub-reviewing for TSE 2017

Technology Skills	Programming Languages: Python, Java, Haskell, SystemVerilog.
	Theorem Proof Assistants: Coq.

Language Skills

Native: Romanian.
Fluent: English, Russian.
Intermediate: Czech, German.
Beginner: Japanese.