

Profir-Petru Pârțachi

Tel: On Request

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Education	PhD in Computer Science <i>Centre for Research on Evolution, Search and Testing</i> PhD Thesis: 'Improving Software Project Health Using Machine Learning' Supervised by Prof. Earl T. Barr (e.barr@ucl.ac.uk)	September 2016 – December 2020 <i>University College London, Gower Street, London WC1E 6BT</i>
	Computer Science Tripos <i>King's College, University of Cambridge</i> BA Hons in Computer Science BA Thesis: 'Deck building in Hearthstone Using a Genetic Algorithm.'	September 2013 – July 2016 <i>Cambridge, United Kingdom</i>
Work Experience	Freelance Researcher/External Consultant <i>National Institute of Informatics</i> Research into the naturalness properties of structured representations of source-code. Consulting for Assoc. Prof. Mahito Sugiyama	April 2021 – now <i>Chișinău, Republic of Moldova</i>
	Research Internship <i>National Institute of Informatics</i> Worked on the efficient processing of spatiotemporal data for anomaly detection using Graph Kernels. Supervised by Assoc. Prof. Mahito Sugiyama	October 2018 – April 2019 <i>National Institute of Informatics, Tokyo</i>
	Hardware/Software Engineer Intern <i>University of 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.	June 2016 – September 2016 <i>Computer Laboratory, University of Cambridge, Cambridge</i>
	Software Developer Intern <i>Amazon Instant Video</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.	June 2015 – October 2015 <i>London</i>
Publications	<p>[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://pppi.github.io/Flexeme</p> <p>[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://pppi.github.io/POSIT</p>	
Teaching Experience	Teaching Assistant at University College London:	

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

Awards

Cambridge Commonwealth Trust 2013-2014
For the purpose of BA Computer Science Tripos at King's College, Cambridge

HMC Reduced Fee Scheme 2012
For the purpose of attending Seaford College for UK A-levels

Reviews

Conferences

- 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

- 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.