Boris Eng

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PhD in theoretical computer science, looking for a software engineer position

Education

PhD in Theoretical Computer Science	Université Paris 13	2019–2023
Master Parisien de Recherche en Informatique (MPRI)	Université Paris 7	2018–2019
Master 1 Informatique Recherche (mark 15.5/20)	Université Paris 7	2017–2018
Licence Informatique (ranked 2nd, then 1st)	Université Paris 7	2016–2017
DUT Informatique (ranked 1st)	IUT de Montreuil	2014–2016

Experience

Université Paris 13 – Institut Galillée 2022–2023
Fellowship for research and teaching (ATER) Villetaneuse
192 hours of teaching in programming (C, Java, Prolog), formal logic, web (HTML/CSS) and networks.

Université Paris 13 (LIPN, LoVe team) 2019–2023
PhD thesis, supervised by Damiano Mazza and Thomas Seiller Villetaneuse
Title: "An exegesis of transcendental syntax". Formalization and development of Girard's informal transcendental syntax project. Definition of a new model of computation used as a basis for a non-primitive definition of (linear) logic's proof-nets. Complete panorama of the links between logic and computation. Three years of teaching on programming (C, OCaml), formal logic and computability theory. Co-founded the ReFL (Réflexion sur les fondements de la logique) research group (mostly with other PhD students).

Université Paris 13 (LIPN, LoVe team) March – August 2019
Internship, supervised by Thomas Seiller Villetaneuse
Report on the origin and motivation of Jean-Yves Girard's transcendental syntax from his geometry of interaction project. First formalization of informal ideas sketched in Girard's papers.

Université Paris 13 (LIPN, LoVe team) February – July 2018
Master research project, supervised by Damiano Mazza Villetaneuse
Use of tools from implicit complexity to investigate the space complexity of functional programs. Study of the lambda-calculus as a reasonable cost model (relatively close to Turing machine's complexity).

Université Paris 7 (IRIF) June 2017 (8 weeks)
Internship, supervised by Delia Kesner and Michele Pagani Paris
Encoding of the PCF language (Turing-complete extension of lambda-calculus) into linear logic's proof-nets extended with explicit substitutions. Link of the two models with a simulation proof.

Inria de Paris (PROSECCO team) April 2016 (12 weeks)
Internship, supervised by Yannis Juglaret Villetaneuse
Use of the Coq proof assistant for the verification of theorems in a paper on secure compilation. Implementation of an abstract machine and a compiler from a C-like language to an assembly-like language.

Technical skills

Programming OCaml, Haskell, Coq, Java, C/C++, Python
Project management Git, Make
Web HTML, CSS, Jekyll, Hugo
Typesetting LaTeX, Typst

Languages

French Mother tongue
English Professional proficiency

Hobbies and interests

Computer music, philosophy and foundations of logic, finance