Boris Eng

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

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, C/C++, Java, Python
Project management Git
Web HTML, CSS, Jekyll, Hugo
Typesetting LaTeX, Typst

Languages

French Native language
English Professional proficiency

Hobbies and interests

Computer music, philosophy and foundations of logic