Gabriel Radanne-Krawice

Curriculum vitae

▬▬▬ Identity

Last Name:	Radanne	First Name:	Gabriel
Usage Name:	Radanne-Krawice	Birth date:	27 Avril 1990
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▬▬▬ Education

2008 **Baccalauréat général, Série scientifique**, *Lycée Charlemagne, Paris, France*, Mention Bien.

2011 **Licence d'Informatique**, *École Normale Superieure de Cachan, Antenne Bretonne – Université de Rennes 1, Rennes, France*, Mention Bien.

2011 **Licence de Mathématique**, *École Normale Superieure de Cachan, Antenne Bretonne – Université de Rennes 1, Rennes, France*, Mention Assez Bien.

2013 **Master Science, Technologie, Santé; Option Recherche; Spécialité Informatique Fondamentale**, *École Normale Superieure de Lyon – Université de Lyon 1, Lyon, France*, Mention Assez Bien.
Internship "Le langage Eliom", at IRILL (https://www.irill.org), Paris, France, under the direction of Vincent BALAT.

14 November 2017 **PHD "Tierless Web programming in ML"**, *Laboratoire IRIF (UMR 8243, https://www.irif.fr) at Université Paris 7, Paris, France, under the direction of Roberto DI COSMO et Jérôme VOUILLON.*

▬▬▬ Professional activities and internships

Summer 2012 **Compilation Schema for Links**, *Internship under the direction of Sam LINDLEY, James CHENEY and Philip WADLER*, Edinburgh University, Edinburgh, UK. http://links-lang.org/

Summer 2013 **The Eliom Language**, *Internship under the direction of Vincent BALAT*, IRILL (https://www.irill.org/), Paris, France.

Winter 2013 **Type theory in sequent calculus**, *Internship under the direction of Jean Philippe BERNARDY*, Chalmers, Goteborg, Sweden.

Summer 2014 **Synthesis of ranking functions using extremal counterexamples**, *Internship under the direction of David MONNIAUX and Laure GONNORD*, Verimag (UMR 5104, http://www-verimag.imag.fr/), Grenoble, France.

October 2014 - September 2017 **Tierless Web Programming in ML**, *PhD student and Teaching Assistant*, Université Paris 7, Paris, France.

Summer 2015	**Functoria**, *Internship under the direction of Thomas Gazagnaire*, OCaml Labs (http://ocamllabs.io/), Cambridge, UK.
October 2017 - Today	**Linear types for ML**, *Postdoc in the proglang division (https://proglang.informatik.uni-freiburg.de/) and Teaching assistant*, Freiburg Universität, Freiburg Im Brisgau, Germany.

Academic and Teaching activities

• Reviewing activities

ProWeb 2018	Secondary reviewer for Peter Thiemann
APLAS 2018	Secondary reviewer for Peter Thiemann
ECOOP 2018	Secondary reviewer for Peter Thiemann
OOPSLA 2018	Member of the Artifact Evaluation Committee
ML 2017	Invited reviewer for the post-proceedings
OOPSLA 2019	Member of the Artifact Evaluation Committee

• Organization

I have been student volunteer for the following conferences: ESOP 2014; ICFP 2014, 2015 and POPL 2016.

• Teaching

During my PHD, I was a teaching assistant at University Paris Diderot for the following courses:

PF5	**Functional Programming**, *3rd year students*, with Michele Pagani.
ADS4	**Lexing, Parsing and AST manipulation**, *2nd year students*, with Ralf Treinen.
CI2	**Computer Science Concepts**, *1st year students*, with Jean-Baptiste Yunès.
PI4	**Programming Project**, *2nd year students*, with Inès Klimann.
IP-CPEI	**Introduction to Programming in C**, *3rd year students*, with Vincent Padovani.
EIDD-C	**Introduction to Programming in C**, *1st year students*, with Roberto Amadio.

During my Postdoc, I was teaching assistant at Freiburg Universität with Peter Thiemann for the following courses and seminars:

Winter 2017/2018	**Functional Programming**, *3rd and 4th years students*.
	Seminar: Theoretische Informatik, *Article studies for Baschelor students*.
Summer 2018	**Essentials of Programming Languages (Introduction to programming language theory)**, *3rd and 4th years students*.
Winter 2017/2018	**Energy Informatics (Introduction to programming and data-analytics with Python)**, *Students from the Master "Renewable Energy"*.
	Seminar: Types, *Article studies for 3rd and 4th years students*.

I also was one of the animator for "Fête de la Science" (vulgarization for the general public, notably kids) organized by Yann Régis-Gianas at Université Paris Diderot in 2016.

▬▬▬ Publications

Unless indicated, authors are ordered by implication in the production of the article. The underlined author presented the work.

- ● <u>International conference with selection committee</u>

PLDI 2015 **Synthesis of ranking functions using extremal counterexamples**, *Laure Gonnord, David Monniaux, <u>Gabriel Radanne</u>*.
Conference on Programming Language Design and Implementation.
https://pldi15.sigplan.org/track/pldi2015-papers#program
Selection rate: 19%.
The authors are listed in alphabetical order.

APLAS 2016 **Eliom: A Core ML Language for Tierless Web Programming**, *<u>Gabriel Radanne</u>, Jérôme Vouillon, Vincent Balat*, Publication ci-jointe.
Asian Symposium on Programming Languages and Systems
https://soict.hust.edu.vn/~aplas2016/
Selection rate: 37%.
Also presented at the national workshop AFADL in the context of GDR-GPL (http://afadl2017.imag.fr/).

IFL 2016 **Eliom: Tierless Web programming from the ground up**, *<u>Gabriel Radanne</u>, Vasilis Papavasileiou, Jérôme Vouillon, Vincent Balat*.
Symposium on Implementation and Application of Functional Languages
https://dtai.cs.kuleuven.be/events/ifl2016/
Post-proceedings: https://dl.acm.org/citation.cfm?doid=3064899
Selection rate: 45% – **Prix Peter Landin 2016**.

WWW 2018 - **Tierless Web Programming in the Large**, *<u>Gabriel Radanne</u>, Jérôme Vouillon*.
Web programming The Web Conference – Web programming track
https://www2018.thewebconf.org/program/web-programming/
Selection rate: 50%.

GPCE 2018 **Regenerate: A Language Generator for Extended Regular Expressions**, *Gabriel Radanne, <u>Peter Thiemann</u>*.
International Conference on Generative Programming: Concepts and Experiences
https://conf.researchr.org/track/gpce-2018/gpce-2018
Selection rate: 37%.

- ● <u>International Workshops with selection committee</u>

PEPM 2014 **Effective Quotation: relating approaches to language-integrated query**, *James Cheney, <u>Sam Lindley</u>, Gabriel Radanne, Philip Wadler*.
Workshop on Partial Evaluation and Program Manipulation
http://program-transformation.org/PEPM14/AcceptedPapers
The authors are listed in alphabetical order.

PEPM 2019 **Typed Parsing and Unparsing for Untyped Regular Expression Engines**, *<u>Gabriel Radanne</u>*.
Workshop on Partial Evaluation and Program Manipulation
https://popl19.sigplan.org/track/pepm-2019-papers
Also presented at the OCaml-2017 workshop (as a poster) and the "OCaml User In Paris" meetup.

- ● <u>Short papers, posters and international talks</u>

ML 2017 **Tierless modules**, *<u>Gabriel Radanne</u>, Jérôme Vouillon*.
ML family Workshop – http://www.mlworkshop.org/workshops/ml2017

OCaml 2018   **This PDF is an OCaml bytecode**, _Gabriel Radanne_.
              OCaml Workshop – https://icfp18.sigplan.org/track/ocaml-2018-papers

OCaml 2018   **Abusing Format for fun and profits**, _Gabriel Radanne_.
              OCaml Workshop – https://icfp18.sigplan.org/track/ocaml-2018-papers

- Unpublished

Eliom: A Language for Modular Tierless Web Programming, _Gabriel Radanne, Jérôme Vouillon, Vincent Balat_.
https://arxiv.org/abs/1901.11411