

# STEPHAN BRANDAUER

<http://stbr.me/work>

Born and raised near Salzburg, Austria, I studied in Germany and Sweden. I work, teach, and learn as a Ph.D. student at Uppsala University. I'm interested in understanding how mutable state is used by practitioners, and in creating language abstractions that let practitioners control aliasing of mutable state. This serves two interests: writing correct software, and writing efficient software.

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2017

*Publication*  $\times 2$  – “Disjointness Domains for Fine-Grained Aliasing”, Brandauer, Wrigstad, Object-Oriented Programming, Systems, Languages & Applications.

2016

– “Parallel Objects for Multicores: A Glimpse at the Parallel Language Encore”, Brandauer, Castegren, Clarke, Fernández, Broch Johnsen, Pun, Tapia Tarifa, Wrigstad, Yang, International School on Formal Methods for the Design of Computer, Communication and Software Systems: Multicore Programming

2015

2014

*Ph.D student, Uppsala University* – Developing type systems for alias control; supervised by Tobias Wrigstad and Dave Clarke.

2013

*Publication* – “The Joelle Programming Language”, Östlund, Brandauer, Wrigstad, International Workshop on Languages for the Multi-Core Era, ECOOP'12.

2012

*M.Sc. in CS, Uppsala University* – M.Sc. thesis “Task Scheduling using Joelle’s Effects”. Implementing a task scheduler for a parallel programming language.

2011

2010

*Teaching- and Research Assistant* – Teach AI, develop VR and eye tracking apps.

*Publication* – “Navigation in VR with the Wii Balance Board”, Hilsendeger, Brandauer, Tolkendorf, Fröhlich, 6th Workshop on VR/AR, 2009

2009

*B.Sc. in Cognitive Informatics* – Average grade 1.5 (grades 1-5, 1 best), B.Sc. thesis: 2D physics engine

2008

*Freelancing at Comet Consulting* – Developing measuring software in C# for automatic 3D laser-range-scan data on construction sites

2007

*Laube GmbH* – Social work instead of being drafted for military service.

