

# Max Schäfer

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CONTACT INFORMATION	Oxford University Computing Laboratory Wolfson Building Parks Road Oxford, OX1 3QD, United Kingdom	<i>Phone:</i> +44 (0)1865 283550 <i>E-mail:</i> max.schaefer@comlab.ox.ac.uk
CITIZENSHIP	German	
RESEARCH INTERESTS	Software refactoring, theorem proving, attribute grammars, programming languages, type systems	
EDUCATION	<b>University of Oxford</b> , Oxford, United Kingdom Doctorate in Computer Science, since October 2007 <ul style="list-style-type: none"><li>• Area of Study: Software Refactoring</li><li>• Supervisor: Professor Oege de Moor</li><li>• Expected graduation date: September 2010</li></ul> <b>Technische Universität Dresden</b> , Dresden, Germany M.Sc. in Computational Logic, October 2005 to April 2007 <ul style="list-style-type: none"><li>• graduated with distinction (GPA 1.0*)</li><li>• Thesis Topic: Towards a Categorical Semantics for the Open Calculus of Constructions</li></ul> <b>National Taiwan University (國立臺灣大學)</b> , Taipei, Taiwan Studies in Computer Science, September 2004 to July 2005 <b>Universität Karlsruhe</b> , Karlsruhe, Germany Vordiplom <sup>†</sup> in Computer Science (Informatik), October 2002 to August 2004 <ul style="list-style-type: none"><li>• graduated with distinction (GPA 1.1*)</li></ul> <b>Beijing Language and Culture University (北京语言大学)</b> , Beijing, China Studies in Mandarin, September 2001 to July 2002	
AWARDS	ACM SIGPLAN <ul style="list-style-type: none"><li>• Best Student Paper Award, OOPSLA 2008</li></ul> Studienstiftung des deutschen Volkes (German National Academic Foundation) <ul style="list-style-type: none"><li>• University Scholarship, 2002–2007</li></ul> Humanismus Heute (Humanism Today) <ul style="list-style-type: none"><li>• First prize in Landeswettbewerb Alte Sprachen (Regional Classics Competition), 1998</li></ul>	
ACADEMIC EXPERIENCE	<b>Oxford University Computing Laboratory</b> <i>Teaching Assistant</i> <b>January 2008 to March 2009</b> <ul style="list-style-type: none"><li>• Demonstrated practicals (<i>Program Analysis</i> HT08, HT09).</li><li>• Marked homework (<i>Principles of Programming Languages</i> MT08).</li></ul>	

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\*The German marking system ranges from 1.0 (best) to 4.0 (worst).

<sup>†</sup>An informal degree awarded after two years of study.

**Institute of Information Science**, Academia Sinica (中央研究院), Taipei, Taiwan

*Instructor*

**July 2007, July 2008**

- Taught courses on logic at the Formosan Summer School on Logic, Language and Computation (FLOLAC) 2007 and 2008.

*Research Assistant*

**September 2006 to September 2007**

*Part-time Research Assistant*

**July 2005 to August 2006**

- Developed XML processing library for Objective Caml.

**Universität Karlsruhe**, Karlsruhe, Germany

*Teaching Assistant*

**April to July 2004**

- Taught small-group tutorials for lecture *Informatik II*.

REFEREED  
CONFERENCE  
PUBLICATIONS

Max Schäfer, Oege de Moor. *Type Inference for Datalog with Complex Type Hierarchies*. POPL 2010.

Max Schäfer, Mathieu Verbaere, Torbjörn Ekman, Oege de Moor. *Stepping Stones over the Refactoring Rubicon — Lightweight Language Extensions to Easily Realise Refactorings*. ECOOP 2009.

Max Schäfer, Torbjörn Ekman, Oege de Moor. *Formalising and Verifying Reference Attribute Grammars in Coq*. ESOP 2009.

Max Schäfer, Torbjörn Ekman, Oege de Moor. *Sound and Extensible Renaming for Java*. OOPSLA 2008.

REFEREED  
WORKSHOP  
PUBLICATIONS

Max Schäfer, Oege de Moor. *Of Gnats and Dragons: Sources of Complexity in Implementing Refactoring*. WRT 2009.

Max Schäfer, Torbjörn Ekman, Oege de Moor. *Challenge Proposal: Verification of Refactorings*. PLPV 2009.

Max Schäfer, Mathieu Verbaere, Torbjörn Ekman, Oege de Moor. *Refactoring Is Not (Yet) About Transformation*. WRT 2008.

Tyng-Ruey Chuang, Max Schäfer. *Status report: Layered Streaming XML Processing with Modules*. ML 2007.

PROFESSIONAL  
EXPERIENCE

**Semmler**, Oxford, United Kingdom

*Software Engineer*

**since January 2009**

- Participating in the development of an optimising compiler for Datalog.
- Work on standard query libraries shipping with Semmler products.

**ABB Turbo Systems**, Baden, Switzerland

*Intern*

**September to October 2005**

- Developed a prototype for a software framework for engineering applications in Java.

ACADEMIC  
SERVICE

Conference Co-Chair of Oxford University Computing Laboratory Student Conference, October 2008.

External Reviewer for PLPV 2009, FLOPS 2008, APLAS 2008