

CURRICULUM VITAE – ESSEN SPARRE ANDREASEN

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PERSONAL INFORMATION

Name Esben Sparre Andreasen
Citizenship Danish
Marital status married
Children one son

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Home Sverigesvej 2
DK-8370 Hadsten
Denmark

POSITIONS

Research Engineer 2017 September →
At Semmler (<https://semmler.com/>)
Topic: Static JavaScript Analysis

Postdoc 2016 July → 2017 August
At Aarhus University: Center for Advanced Software Analysis
Topic: Static analysis for JavaScript

Research Intern 2014 October → 2015 May
At Samsung Research America
Topic: Type systems for JavaScript

Independent Contractor 2012 October → 2013 April
For Fujitsu Laboratories of America
Topic: Dynamic JavaScript analysis

Research Intern 2012 July → 2012 September
At Fujitsu Laboratories of America
Topic: Dynamic JavaScript analysis

Teacher 2011 → 2015
At Aarhus University
Tasks: Lecturer and TA in the courses Concurrency and Web Technology

Programmer 2009 → 2016
At Aarhus University
Tasks: Various internally used, administrative, programs

EDUCATION

Ph.D. in computer science 2011 → 2016
At Aarhus University: Center for Advanced Software Analysis
Advisor: Anders Møller (<http://cs.au.dk/~amoeller>).
Thesis: Designing Abstractions for JavaScript Program Analysis [1]

Bachelor+Master in computer science

2007 → 2014

At Aarhus University

- RESEARCH INTERESTS My research concerns dynamic and static program analysis, with a particular focus on practical analyses for the unique challenges of real-world JavaScript applications.
- GRANTS AND AWARDS
- ICSE ACM SIGSOFT Distinguished Paper Award** 2016
Feedback-Directed Instrumentation for Deployed JavaScript Applications [6]
 - Stibo-Foundation's IT travel stipend** 2014
55000 DKK for expenses during research internship in California
 - Ph.D. scholarship, Aarhus University** 2011
 - Acknowledgment of ideas, Post Danmark** 2007
5000 DKK for independently formulating general principles for sorting and carrying mail efficiently. The principles were later used as part of the introductory training of new postal workers
- ACADEMIC ACTIVITIES
- 2016 July** Presented “Trace Typing: An Approach for Evaluating Retrofitted Type Systems” [2] at the ECOOP conference
 - 2016 June** Served in the Artifact Evaluation Committee for OOPSLA 2016
 - 2015 August** Presented “Determinacy in Static Analysis for jQuery” [3] at the DANSAS conference
 - 2014 October** Research Intern, Samsung Research America (6 months)
 - 2014 October** Presented “Determinacy in Static Analysis for jQuery” [3] at the OOPSLA conference
 - 2014 April** Presented “String Analysis for Dynamic Field Access” [5] at the CC conference at ETAPS
 - 2012 June** Research Intern, Fujitsu Laboratories of America (3 months)
- PUBLICATIONS
- [1] Esben Andreasen. *Designing Abstractions for JavaScript Program Analysis*. PhD thesis, Aarhus University, 2016.
 - [2] Esben Andreasen, Colin S. Gordon, Satish Chandra, Manu Sridharan, Frank Tip, and Koushik Sen. Trace typing: An approach for evaluating retrofitted type systems. In *30th European Conference on Object-Oriented Programming, ECOOP*, 2016.
 - [3] Esben Andreasen and Anders Møller. Determinacy in static analysis for jQuery. In *ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA*, 2014.
 - [4] Guodong Li, Esben Andreasen, and Indradeep Ghosh. SymJS: automatic symbolic testing of javascript web applications. In *22nd ACM SIGSOFT International Symposium on Foundations of Software Engineering, FSE*, 2014.

- [5] Magnus Madsen and Esben Andreasen. String analysis for dynamic field access. In *Compiler Construction - 23rd International Conference, CC*, 2014.
- [6] Magnus Madsen, Frank Tip, Esben Andreasen, Koushik Sen, and Anders Møller. Feedback-directed instrumentation for deployed javascript applications. In *38th IEEE/ACM International Conference on Software Engineering, ICSE*, 2016.