

Tobias Dürschmid

PH.D. STUDENT IN SOFTWARE ENGINEERING AT CARNEGIE MELLON UNIVERSITY, INSTITUTE OF SOFTWARE RESEARCH

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“Simplifying the development of complex software systems.”

Education

PhD Student in Software Engineering

CARNEGIE MELLON UNIVERSITY, INSTITUTE FOR SOFTWARE RESEARCH

- Advisors: David Garlan and Eunsuk Kang
- Specialization in Software Architecture

Pittsburgh, PA, USA

Since Aug. 2018

Graduate Student in IT-Systems Engineering

HASSO PLATTNER INSTITUTE, UNIVERSITY OF POTSDAM

- Specialization in Software Engineering

Potsdam, Germany

Oct. 2017 – Jul. 2018

B.Sc. in IT-Systems Engineering

HASSO PLATTNER INSTITUTE, UNIVERSITY OF POTSDAM

- Specialization in Software Architecture & Modeling Technology
- Grade: “1.1” (with distinction) equals GPA 4.0 / 4.0 (<https://www.foreigncredits.com/Resources/GPA-Calculator/Germany>)

Potsdam, Germany

Oct. 2014 – Sep. 2017

Employment

Software Engineer for Mobile Graphics

HASSO PLATTNER INSTITUTE, COMPUTERGRAPHICS SYSTEMS RESEARCH GROUP

- Design, implementation, and evaluation of a framework for mobile image stylization

Potsdam, Germany

Mar. 2018 – Jul. 2018

Tutor in Software Engineering II

HASSO PLATTNER INSTITUTE, ENTERPRISE PLATFORMS AND INTEGRATION CONCEPTS RESEARCH GROUP

- Coaching 43 students in software engineering

Potsdam, Germany

Oct. 2017 – Mar. 2018

Software Engineer for Mobile Graphics

HASSO PLATTNER INSTITUTE / UNIVERSITY OF POTSDAM, COMPUTERGRAPHICS SYSTEMS RESEARCH GROUP

- Design, implementation, and evaluation of a framework for mobile image stylization

Potsdam, Germany

*Mar. 2016 – Jun. 2016 at University of
Potsdam, Jul. 2016 – Sep. 2017 at HPI*

Teaching Assistant in Modeling I

HASSO PLATTNER INSTITUTE, SYSTEM ANALYSIS AND MODELING RESEARCH GROUP

- Teaching 20 students in modeling

Potsdam, Germany

Oct. 2015 – Feb. 2016

Student Research Assistant

HASSO PLATTNER INSTITUTE, SYSTEM ANALYSIS AND MODELING RESEARCH GROUP

- Model-driven description of refactorings for an incremental recovery engine

Potsdam, Germany

Dec. 2014 – Mar. 2015

Honors & Awards

Nov. 2017 **Best Paper Award**, SIGGRAPH ASIA Mobile Graphics and Interactive Applications

Bangkok, Thailand

Apr. 2017 **1. Place in the ACM Student Research Competition**, International Conference on the Art, Science and Engineering of Programming

Brussels, Belgium

since 2014 **Scholarship of the “Studienstiftung des deutschen Volkes”**, Largest scholarship in Germany, given to less than 0.5% of all students in Germany

Germany

Talks & Presentations

Presenter for “ProsumerFX: Mobile Design of Image Stylization Components”

Bangkok, Thailand

ACM SIGGRAPH ASIA SYMPOSIUM ON MOBILE GRAPHICS AND INTERACTIVE APPLICATIONS

Nov. 2017

Presenter for “Towards Architectural Styles for Android App Software Product Lines”

Buenos Aires, Argentina

IEEE/ACM INTERNATIONAL CONFERENCE ON MOBILE SOFTWARE ENGINEERING AND SYSTEMS

May 2017

Poster presentation and research talk of “Continuous Code Reviews: A Social Coding tool for Code Reviews inside the IDE”

Bruessels, Belgium

ACM STUDENT RESEARCH COMPETITION AT <PROGRAMMING>

Apr. 2017

Poster presentation of “Design Pattern Builder: A Concept for Refinable Reusable Design Pattern Libraries”

Amsterdam, Netherlands

ACM STUDENT RESEARCH COMPETITION AT SPLASH

Nov. 2016

Publications

- [1] Robert Hirschfeld, Tobias Dürschmid, Patrick Rein, and Marcel Taeumel. “Cross-cutting Commentary: Narratives for Multi-party Mechanisms and Concerns”. In: *Proceedings of the 10th International Workshop on Context-Oriented Programming: Advanced Modularity for Run-time Composition*. COP '18. Amsterdam, Netherlands: ACM, 2018, pp. 39–47. ISBN: 978-1-4503-5722-7. DOI: 10.1145/3242921.3242927.
- [2] Matthias Trapp, Sebastian Pasewaldt, Tobias Dürschmid, Amir Semmo, and Jürgen Döllner. “Teaching Image-Processing Programming for Mobile Devices: A Software Development Perspective”. In: *EG 2018 - Education Papers*. Ed. by Frits Post and Jirí Žára. EG '18. The Eurographics Association, 2018. DOI: 10.2312/eged.20181002.
- [3] Tobias Dürschmid, Maximilian Söchting, Amir Semmo, Matthias Trapp, and Jürgen Döllner. “ProsumerFX: Mobile Design of Image Stylization Components”. In: *SIGGRAPH ASIA 2017 Mobile Graphics and Interactive Applications*. SA'17. Bangkok, Thailand, 2017. DOI: 10.1145/3132787.3139208.
- [4] Tobias Dürschmid, Matthias Trapp, and Jürgen Döllner. “Towards Architectural Styles for Android App Software Product Lines”. In: *Proceedings of the IEEE/ACM International Conference on Mobile Software Engineering and Systems*. MOBILESoft '17. 2017, pp. 58–62. ISBN: 978-1-5386-2669-6. DOI: 10.1109/MOBILESoft.2017.12.
- [5] Tobias Dürschmid. “Continuous Code Reviews: A Social Coding Tool for Code Reviews Inside the IDE”. In: *Companion to the International Conference on the Art, Science and Engineering of Programming*. Programming '17. 2017, 41:1–41:3. ISBN: 978-1-4503-4836-2. DOI: 10.1145/3079368.3079374.
- [6] Amir Semmo, Tobias Dürschmid, Matthias Trapp, Mandy Klingbeil, Jürgen Döllner, and Sebastian Pasewaldt. “Interactive Image Filtering with Multiple Levels-of-control on Mobile Devices”. In: *SIGGRAPH ASIA 2016 Mobile Graphics and Interactive Applications*. SA '16. 2016, 2:1–2:8. ISBN: 978-1-4503-4551-4. DOI: 10.1145/2999508.2999521.
- [7] Tobias Dürschmid. “Design Pattern Builder: A Concept for Refinable Reusable Design Pattern Libraries”. In: *Companion Proceedings of the 2016 ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications: Software for Humanity*. SPLASH Companion '16. 2016, pp. 45–46. ISBN: 978-1-4503-4437-1. DOI: 10.1145/2984043.2998537.
- [8] Thijs Roumen, Bastian Kruck, Tobias Dürschmid, Tobias Nack, and Patrick Baudisch. “Mobile Fabrication”. In: *Proceedings of the 29th Annual Symposium on User Interface Software and Technology*. UIST '16. 2016, pp. 3–14. ISBN: 978-1-4503-4189-9. DOI: 10.1145/2984511.2984586.