

# Sebastian Berndt

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Research Areas: steganography, cryptography, approximation algorithms, FPT algorithms

Publications: APPROX, IH&MMSEC, ISAAC, LATA ([Link](#))

Teaching: Algorithm Design, IT-Security, Coding Theory ([Link](#))

Education: B.Sc., M.Sc., Ph. D. Student ([Link](#))

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## Education

2010 BSc in Computer Science, University of Kiel  
2012 MSc in Computer Science, University of Kiel  
2012– Research Associate, Ph. D. Student, University of Lübeck

## Publications & talks

2015 Berndt, Sebastian and Jansen, Klaus and Klein, Kim-Manuel (2015),  
"Fully Dynamic Bin Packing Revisited", *APPROX/RANDOM 2015*  
2015 Berndt, Sebastian,  
"Fully Dynamic Bin Packing Revisited", [Approximation Algorithms and Parameterized Complexity](#)  
2016 Berndt, Sebastian and Reischuk, Rüdiger (2016),  
"Steganography Based on Pattern Languages", *LATA 2016*  
2016 Berndt, Sebastian and Liśkiewicz, Maciej (2016),  
"Provable Secure Universal Steganography of Optimal Rate", *ACM IH&MMSEC 2016*,  
**Awarded Best Student Paper.**  
2016 Berndt, Sebastian and Liśkiewicz, Maciej (2016),  
"Hard Communication Channels for Steganography", *ISAAC 2016*

## Teaching

2012 Exercises on "Algorithm Design"  
2012 Exercises on "Introduction to IT Security and Reliability"  
2013 Exercises on "Coding and Security"  
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2014 Exercises on "Introduction to IT Security and Reliability"  
2015 Exercises on "Coding and Security"  
2015 Exercises on "Algorithm Design"  
2015 Exercises on "Introduction to IT Security and Reliability"  
2015 Lectures on "Presentation and Documentation"  
2016 Exercises on "Coding and Security"

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## Extracurricular Activities

- 2012– Received the “*Teaching Certificate I*” by taking more than 10 courses in e.g. team leading, presentation techniques and others ([Link](#))
- 2016 Organizing Committee of *Creative Mathematical Sciences Communication* ([Link](#))
- 2016 Taught a week-long summer course on algorithms to a group of pupils from age 14 to 17 based on *Computer Science Unplugged* ([Link](#))
- 2016 Developed the tool *Jdrasil* to compute tree decompositions which got the third place in the tracks »parallel exact solver« and »parallel heuristic solver« in the first *PACE* challenge on parameterized algorithms ([Software](#), [Challenge](#))

## Awards

- 2016 Best Student Paper Award for “Provable Secure Universal Steganography of Optimal Rate”
- 2016 Third place in the tracks »parallel exact solver« and »parallel heuristic solver« in the first *PACE* challenge on parameterized algorithms

## Interests

Kayaking, Improvisational Theatre, Hiking

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