

Thijs Roumen - CV

Hasso Plattner Institute PhD candidate
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Education

Hasso Plattner Institute, Germany **2014-now**
Ph.D. in Human Computer Interaction
Advisor: Patrick Baudisch

University of Southern Denmark, Denmark **2011-2013**
MSc. in IT Product Design
Thesis advisor: Stephan Wensveen

Eindhoven University of Technology, Netherlands **2007-2011**
BSc. in Industrial Design

Full papers at CHI/UIST

[13] **Thijs Roumen**, Conrad Lempert, Ingo Apel, Erik Brendel, Markus Brand, Laurenz Seidel, Lukas Rambold, and Patrick Baudisch. AutoAssembler: Automatic Reconstruction of Laser-Cut 3D Models *UIST21*

[12] **Thijs Roumen**, Yannis Kommana, Ingo Apel, Conrad Lempert, Markus Brand, Erik Brendel, Laurenz Seidel, Lukas Rambold, Carl Goedecken, Pascal Crenzin, Ben Hurdlehey, Muhammad Abdullah, and Patrick Baudisch. Assembler³: 3D Reconstruction of Laser-Cut Models. *CHI21*

[11] **Thijs Roumen**, Ingo Apel, Jotaro Shigeyama, Abdullah Muhammad, and Patrick Baudisch. Kerf-Canceling Mechanisms: Making Laser-Cut Mechanisms Operate across Different Laser Cutters. *UIST20*

[10] **Thijs Roumen**, Jotaro Shigeyama, Julius Cosmo Romeo Rudolph, Felix Grzelka, and Patrick Baudisch. SpringFit: Joints and Mouns that Fabricate on Any Laser-Cutter. *UIST19*

[9] **Thijs Roumen**, Willie Mueller and Patrick Baudisch. grafter: remxing 3D printed Machines. *CHI18*

[8] **Thijs Roumen**, Bastian Kruck, Tobias Duerschmid, Tobias Nack, Patrick Baudisch. Mobile Fabrication. *UIST16*

[7] Patrick Baudisch, Arthur Silber, Yannis Kommana, Milan Gruner, Ludwig Wall, Kevin Reuss, Lukas Heilmann, Robert Kovacs, Daniel Rechlitz and **Thijs Roumen**. Kyub: A 3D Editor for Modeling Sturdy Laser-Cut Objects. *CHI19*

[6] Muhammad Abdullah, Romeo Sommerfeld, Laurenz Seidel, Jonas Noack, Ran Zhang, **Thijs Roumen** and Patrick Baudisch. Roadkill: Fast-to-Assemble Layouts for Laser-Cut Objects. *UIST21*

[5] Muhammad Abdullah, Martin Taraz, Yannis Kommana, Shohei Katakura, Robert Kovacs, Jotaro Shigeyama, **Thijs Roumen**, and Patrick Baudisch. fastForce: Real-Time Reinforcement of Laser-Cut Structures. *CHI21*

[4] Oliver Schneider, Jotaro Shigeyama, Robert Kovacs, **Thijs Roumen**, Sebastian Marwecki, Nico Boeckhoff, Daniel Amadeus Glockner, Jonas Bounama and Patrick Baudisch. DualPanto: A Haptic Device that Enables Blind Users to Continuously Interact with Virtual World. *UIST18*

[3] Saiganesh Swaminathan, **Thijs Roumen**, Robert Kovacs, David Stangl, Stefanie Mueller, Patrick Baudisch. Linespace: A Sensemaking Platform for the Blind. *CHI16*

[2] Lung-Pan Cheng, **Thijs Roumen**, Hannes Rantzsch, Sven Köhler, Patrick Schmidt, Robert Kovacs, Johannes Jasper, Jonas Kemper, Patrick Baudisch. TurkDeck: Physical Virtual Reality Based on People. *UIST15*

[1] Jessalyn Alvina, Shengdong Zhao, **Thijs Roumen**, Simon T Perrault, Maryam Azh, Morten Fjeld. Omnivib: Towards cross-body spatiotemporal vibrotactile notifications for mobile phones. *CHI15*

Notes at CHI

[1] **Thijs Roumen**, Simon T Perrault, Shengdong Zhao. NotiRing: A comparative study of notification channels for wearable interactive rings. *CHI15*

Research Internships

National University of Singapore, Singapore
Advisor: Shengdong Zhao

2014

Tsukuba University, Japan
Advisor: Seunghee Lee

2010

Professional Activities

Chairing

PC member for UIST2021, CSCW2022, MobileHCI2021, TEI2021 and 2022, DesForm 2019
Local Arrangement Chair UIST 2018

Reviewer

CHI (2015-2021), UIST (2015-2021), and various other ACM conferences

Special Recognitions for reviews (18 in total)

1x UIST21, 2x CHI21, 3x UIST20, CHI Play 20, 2x CHI20, 2x CHI18, 2x CHI15, 2x CHI16, CSCW15, CHI Play 15, CHI Play 14

Community

Chairman of German CHI party (16,17,18)
Moderator of CHI meta (2019 - now)

References

Patrick Baudisch
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Albrecht Schmidt
albrecht.schmidt@um.ifi.lmu.de

Shengdong Zhao
zhaosd@comp.nus.edu.sg

Jürgen Steimle
steimle@cs.uni-saarland.de

Ellen Yi-Luen Do
ellen.do@colorado.edu

Invited Talks

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| [29] MIT Media Lab | [14] University of California Merced |
| [28] MIT CSAIL | [13] University of Waterloo |
| [27] MIT Center for Bits and Atoms | [12] University of Copenhagen, Denmark |
| [26] University of Washington, Seattle | [11] University of Calgary |
| [25] Carnegie Mellon University, Pittsburgh | [10] University of Bristol, UK |
| [24] University of Chicago | [9] Dartmouth College |
| [23] University of Toronto, Canada | [8] A&M University of Texas |
| [22] University College London, UK | [7] Kolding Design School tech seminar |
| [21] University of Maryland | [6] Dagstuhl Seminar on Computational Aspects of Fabrication |
| [20] University of Tokyo | [5] Saarland University, Germany |
| [19] National University of Singapore | [4] Ulm University, Germany |
| [18] University of Colorado, Boulder | [3] University of Cape Town |
| [17] SIGCHI Paris | [2] LMU Munchen |
| [16] KAIST | [1] Hasselt University |
| [15] MIT Vision and Graphics seminar | |

Teaching

Created Courses, primary lecturer at HPI

| | |
|--|-------------|
| [2] Algorithmic Folding, master course | winter 2021 |
| [1] Algorithmic Folding, master course | winter 2020 |

(evaluated by students with a 1.1 grade on a scale from 5.0-1.0)

Teaching Assistant at HPI

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| [7] Building Interactive Systems, bachelor course | summer 2020 + 2021 |
| [5] Programming Technology 1, bachelor course | winter 2019 |
| [4] Designing Interactive Systems, bachelor course | summer 2018 + 2019 |
| [2] Human Computer Interaction 1, bachelor course | winter 2015 + 2016 |

Created Courses at University of Southern Denmark

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| [2] Introduction to Arduino Programming, master+bachelor | summer 2013 |
| [1] Introduction to Arduino Programming, master+bachelor | winter 2013 |

Mentoring

Master thesis students (6 months fulltime)

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|-------------------|------|-----------------------------|------|
| [7] Ingo Apel | 2020 | [3] Daniel Amadeus Glockner | 2019 |
| [6] Nico Böckhoff | 2020 | [2] Yannis Kommana | 2018 |
| [5] Jonas Bounama | 2019 | [1] Willi Mueller | 2016 |
| [4] Lukas Wagner | 2019 | | |

Bachelor thesis students (1 year fulltime)

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| [4] Jeffrey Johnson | 2020 |
| [3] Benjamin Daniel | 2020 |
| [2] Ronja Wagner | 2020 |
| [1] Ole Schlueter | 2020 |

Research intern (3 months fulltime)

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| [3] Ritesh Sharma | 2020 |
| [2] Vinayak Pushar | 2019 |
| [1] Ingo Apel | 2019 |

Master Project Students (6 months--3 days per week)

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| [8] Laurenz Seidel | 2020 | [4] Conrad Lempert | 2019 |
| [7] Erik Brendel | 2020 | [3] Ingo Apel | 2019 |
| [6] Lukas Rambold | 2020 | [2] Carl Goedecken | 2019 |
| [5] Markus Brand | 2020 | [1] Pascal Crenzin | 2019 |

Research project students (2 days per week for a semester)

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| [20] Tarik Alnawa | 2020 | [10] Melvin Witte | 2016 |
| [19] Hendrik Woehlert | 2020 | [9] Kieran Lomas | 2016 |
| [18] Laura Meister | 2020 | [8] Fabian Pottbaecker | 2016 |
| [17] Ingo Apel | 2019+20 | [7] Andreas Burmeister | 2016 |
| [16] Julius Rudolph | 2019 | [6] Yannis Komana | 2016 |
| [15] Felix Grzelka | 2019 | [5] Tobias Nack | 2015 |
| [14] Alexander Preuss | 2018 | [4] Tobias Duerschmid | 2015 |
| [13] Jonathan Janetzki | 2018 | [3] Bastian Kruck | 2015 |
| [12] Ivan Illic | 2017+18 | [2] Pascal Crenzin | 2015 |
| [11] Philipp Hoberg | 2017+18 | [1] Jonathan Herdt | 2015 |

Awards/Honors

- [3] Social Design Award 2010 from City of Eindhoven for *the Wiggle*
- [2] Representing TU/E at the Dutch Design Week 2010
- [1] Nomination for Sønderborg Entrepreneurship Award 2012
- [*] Finisher of the **NYC Marathon and Berlin Marathon** 2018 and 2019 with a best time of 03:16:27

Non-Academic affiliations

DKNL Design, Denmark **2013-2014**
Interaction design consultant
Concept and prototype development, main client: LEGO

Stik Design, Denmark, Netherlands **2010-2013**
Founder and Owner
Product Design and Development.
Products: the Wiggle (playground), Kuchi (promotional concept for entertainment parks), Yubi (promotional concept for festivals) and hourly paid design work

EST Fellenoord, Netherlands **2010-2011**
Board position as Commissioner Internal Affairs
For a year I was boardmember of this student tennis association with over 400 members, responsible for internal communication and chairing the internal committees + organizing the bar and events

Brabant Center of Entrepreneurship, Netherlands **2010-2011**
Completed the Technology Entrepreneurship certificate program