

Thijs Roumen - CV

Assistant Professor IS, Cornell Tech
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Academic Affiliations

Cornell Tech, NYC, USA **2022-now**
Assistant Professor (Tenure-Track) in Information Science

Education

Hasso Plattner Institute, Germany **2014-2022**
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 top-tier HCI conferences with 20-25% acceptance rate

[16] **Thijs Roumen**, Ingo Apel, Thomas Kern, Martin Taraz, Ritesh Sharma, Ole Schlueter, Jeffrey Johnson, Dominik Meier, Conrad Lempert, and Patrick Baudisch. Structure-Preserving Editing of Plates and Volumes for Laser Cutting under review for **UIST22**

[15] **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**

[14] **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**

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

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

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

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

- [9] 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**
- [8] Muhammad Abdullah, Romeo Sommerfeld, Bjarne Sievers, Leonard Geier, Jonas Noack, Marcus Ding, Christoph Thieme, Laurenz Seidel, Lukas Fritsche, Erik Langenhan, Oliver Adameck, Moritz Dzingel, Thomas Kern, Martin Taraz, Conrad Lempert, Shohei Katakura, Hany Ehassany, **Thijs Roumen**, and Patrick Baudisch. HingeCore: Laser-Cut Foamcore for Fast Assembly under review for **UIST22**
- [7] Keunwoo Park, Conrad Lempert, Muhammad Abdullah, Shohei Katakura, Jotaro Shigeyama, **Thijs Roumen**, and Patrick Baudisch. FoolProofJoint: Reducing Assembly Errors of Lasr Cut 3D Models by Means of Custom Joint Patterns. **CHI22**
- [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**
Best Paper Honorable Mention (best 5%)
- [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**

Research Internships

National University of Singapore, Singapore
Advisor: Shengdong Zhao

2014

Tsukuba University, Japan
Advisor: Seunghee Lee

2010

Department Service

Committee Member

2022 PhD admissions in IS
2022 PhD admissions in CS

Academic Community Service

Committees

PC member for UIST2021-22, CHI2023, CSCW2022, MobileHCI2021, TEI2021-22, DesForm 2019
Best Paper Committee UIST2022
Student Innovation Contest Chair for UIST 2022
Local Arrangement Chair UIST 2018

Reviewer

CHI (2015-2022), UIST (2015-2022), and various other ACM conferences

Special Recognitions for reviews (21 in total)

1x DIS22, 2x CHI22, 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 (16,17,18,19), Moderator of CHI meta (2019 - now)

Invited Talks

[39] Cornell Tech, NYC
[38] University of Montreal
[37] Cornell, Ithaca
[36] UIUC
[35] Stanford University
[34] University of Michigan
[33] UCSD
[32] National Taiwan University
[31] UCLA
[30] Harvard University
[29] University of Washington, Seattle
[28] MIT CSAIL
[27] MIT Center for Bits and Atoms
[26] MIT Media Lab
[25] Carnegie Mellon University, Pittsburgh
[24] University of Chicago
[23] University of Toronto, Canada
[22] University College London, UK
[21] University of Maryland
[20] University of Tokyo

[19] National University of Singapore
[18] University of Colorado, Boulder
[17] SIGCHI Paris
[16] KAIST
[15] MIT Vision and Graphics seminar
[14] University of California Merced
[13] University of Waterloo
[12] University of Copenhagen, Denmark
[11] University of Calgary
[10] University of Bristol, UK
[9] Dartmouth College
[8] A&M University of Texas
[7] Kolding Design School tech seminar
[6] Dagstuhl Seminar on Computational Aspects of Fabrication
[5] Saarland University, Germany
[4] Ulm University, Germany
[3] University of Cape Town
[2] LMU Munchen
[1] Hasselt University

Teaching

Primary Instructor at Cornell Tech

[1] HCI and Design, 200 master students fall 2022

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 where 1.0 is the best grade)

Teaching Assistant at HPI

[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

[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)

[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)

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

Research intern (3 months fulltime)

[4] Romeo Sommerfeld	2021
[3] Ritesh Sharma	2020
[2] Vinayak Pushar	2019
[1] Ingo Apel	2019

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

[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)

[21] Julian Arnold	2021		
[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

[4] Honorable Mention Award UIST'21 (best 5% of papers)

[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