

# Ludwig Wilhelm Wall - CV

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## Employment

**KYUB**, personal fabrication start-up 2016 – 2018  
Design space research, prototyping and backend web development

## Education


**Hasso Plattner Institute**, Germany (nationwide 1st in Computer Science) 2017  
M.Sc. with distinction, IT-Systems Engineering  
Thesis: Design and Synthesis of Digital Mechanical Metamaterials  
Advisor: Patrick Baudisch

**HPI School of Design Thinking**, Germany 2013  
Advanced Track, Design Thinking  
Project Partner: Volkswagen AG

**Hasso Plattner Institute**, Germany (nationwide 1st in Computer Science) 2013  
B.Sc., IT-Systems Engineering

## Full Papers

ACM CHI/UIST are the top-tier publications in Human Computer Interaction (20-25% acceptance rate).

- [5] Patrick Baudisch, Arthur Silber, Yannis Kommana, Milan Gruner, **Ludwig Wilhelm Wall**, Kevin Reuss, Lukas Heilmann, Robert Kovacs, Daniel Hoffmann, Thijs Jan Roumen. Kyub: a 3D Editor for Modeling Sturdy Laser-Cut Objects. *To appear*.
- [4] Alexandra Ion, **Ludwig Wilhelm Wall**, Robert Kovacs, Patrick Baudisch. Digital Mechanical Metamaterials: Integrating simple computation into 3D-printed objects' cell structure. *Proc. ACM CHI 2017*, 977-988.
- [3] Robert Kovacs, Anna Seufert, **Ludwig Wilhelm Wall**, Hsiang-Ting Chen, Florian Meinel, Willi Müller, Sijing You, Maximilian Brehm, Jonathan Striebel, Yannis Kommana, Alexander Popiak, Thomas Bläsius, Patrick Baudisch. TrussFab: Fabricating Sturdy Large-Scale Structures on Desktop 3D Printers. *Proc. ACM CHI 2017*, 2606-2616.
- [2]  Alexandra Ion, Johannes Frohnhofen, **Ludwig Wilhelm Wall**, Robert Kovacs, Mirela Alistar, Jack Lindsay, Pedro Lopes, Hsiang-Ting Chen, Patrick Baudisch. Metamaterial Mechanisms. *Proc. ACM UIST 2016*, 529-539. **[BEST PAPER NOMINEE]**
- [1] Udayan Umapathi, Hsiang-Ting Chen, Stefanie Mueller, **Ludwig Wilhelm Wall**, Anna Seufert, Patrick Baudisch. LaserStacker: Fabricating 3D Objects by Laser Cutting and Welding. *Proc. ACM UIST 2015*, 575-582.

## Demos at Conferences

- [1] Demonstrating TrussFab: Fabricating Sturdy Large-Scale Structures on Desktop 3D Printers. *ACM CHI 2017 Demonstration*.

## Professional Activities

Student volunteer, ACM UIST 2018

## Awards and Honors

Best Paper Nominee, ACM UIST 2016

## Instructed Workshops

"Introduction to 3D-Printing", OSZ I – Technik Potsdam, Germany	2018
"Introduction to SLR-Photography", Hasso Plattner Institute, Germany	2011
"Introduction to SLR-Photography", Hasso Plattner Institute, Germany	2010

## Skills

JavaScript, C++, Python, Java  
Lasercutting, 3D printing, Arduino programming  
Illustrator, Photoshop, Premiere, LaTeX  
Photography, Wood- and Metalworking

## Other Activities

Maintaining an <a href="#">online shop</a> with ~60 unique visits daily	2013 – 2018
Chair of HPI student photography club	2009 – 2012
Winner of two strategy tabletop game leagues with 28 players total	2013

## References

**Patrick Baudisch**  
Professor, Hasso Plattner Institute

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