

Ludwig Wilhelm Wall - CV

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Employment

KYUB, personal fabrication start-up 2017 – 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 in ACM CHI 2019*.
- [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
Laser cutting, 3D printing, Arduino programming
Illustrator, Photoshop, Premiere, LaTeX
Photography, Wood- and Metalworking

Other Activities

Maintaining a "bestseller" online shop	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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HCI Lab

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Interactive Geometry Lab

Institute of Visual Computing, ETH Zürich

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School of Design Thinking

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