Oliver Stickel

Fab Lab manager, researcher, founder

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- ☆ oliverstickel.de / ♠ GitHub
- cv-full.pdf / cv-onepage.pdf
- ORCID / G Scholar / ResearchGate

Experience

Lab leader. I was involved in the setup of RUB-Makerspace as deputy general manager as well as lab leader for the Digital Lab and the Plastics Lab. RUB-Makerspace is a 2000sqm space with a team of 16 people and multiple (sub-)labs. Ruhr-Universität Bochum.

2015-today

2020-2023

Self-employed researcher, consultant, educator. Consultation work for organizations interested in Fab Labs, Makerspaces and Community Innovation Spaces. Public and private grant proposals. Teaching. Book project "Handbuch Fab Labs".

Researcher, project manager, educator. After graduating, I stayed at Uni Siegen to continue building Fab Lab Siegen into a sustainable infrastructure. Apart from the Lab, I worked on/in in different projects (see below), published and did a lot of teaching. University of Siegen.

2015-2019

Guest researcher, consultant. Field research, consultations and development of joint project proposals in/with collaborators from the Middle East. University of Birzeit, Univ. of Technology Oman, Goethe Institute, others, (mostly) Palestine.

2014-2019

Founder and manager. I founded Fab Lab Siegen and managed it on its journey from a student initiative in a literal storage room on campus outside the city through many locations to a big, wonderful, colorful, open and community-oriented space with a funded team and filled with people, ideas, tools and machines right in the city center. Siegen.

2013-2019

TA, **student researcher**. Teaching assistant (mostly in HCI), research assistant (mostly with qualitative field work), IT and media tech support/maintenance. Universities of Siegen and Duisburg-Essen.

2009-2015

Education

(Occasional) dissertation work - About (Fab) Labs as public infrastructure. University of Siegen and self-employed.

2015-today

M.Sc. Human Computer Interaction (honors) - Socio-technical systems design based on qualitative methods. University of Siegen.

2012-2015

B.Sc. Applied Cognitive and Media Sciences - Computer Science and Psychology (without advanced engineering and clinical aspects), grounded in quantitative methods. University of Duisburg-Essen.

2009-2012

Community roles

I (co-)chaired Fab:UNIverse - the conference of Fab Lab managers at German universities - multiple times and help maintain its website. I've also (co-)organized many gatherings such as temporary (Maker)spaces at other events or meetups like the World Usability Day Siegen (2014-2018). In academic service, I was reviewer/chair for conferences and journals like

CHI, JCSCW, C&T or M&C. Occasionally, I've been asked to join committees, mostly on (community) innovation spaces or student issues. I've also been an elected member of different bodies of (self)-governance such as the Senate commission on Strategic University Development and

examination boards at Uni Siegen or head of the student representatives ("Fachschaftsräte") at Uni Duisburg-Essen and Uni Siegen respectively. Memberships: Verbund Offener Werkstätten, Chaos Computer Club, ver.di, Fab Lab Network, FIFF. Past: UPA, GIG, Hasi, GI.

Teaching

I enjoy teaching and learning a lot. I've always made it a point to try and be open in teaching and have frequently had students from other faculties or external guests in my seminars.

At Uni Siegen, I've been responsible for most elements of the annual mandatory introduction to Human Computer Interaction for years. This included lectures and mentoring up to 40 students per iteration through big, semester-long projects ending in submissions to and wins in national student challenges. Additionally, I've held many different seminars ranging from reading classes on literature about "Making" to very practical seminars on rapid prototyping methods.

At Ruhr-Uni Bochum, I was less involved in structured, academic teaching but tought and learned whatever was needed to help many different Makerspace community members from (many different) disciplines with their - many different - projects.

As a thesis advisor and co-advisor, I have accompanied about 8 Bachelor and Master Students along their paths to graduation. Topics have varied from participatory-design-oriented field investigations to studies about Makerspaces in teacher training to engineering and fabrication of additive tools for industrial processes. Additionally, I've been involved in co-advising state-certified technicians as a pilot project between a university and a technical vocational college. Occasionally, I've contributed to revisions of examination regulations and similar regulatory structures.

I've also developed and held lots of safety and infrastructure introductions.

Skills in Keywords

Making - Makerspace operation / management / safety. Rapid Prototyping (many different methods), CAD/CAM, general (basic) coding, (traditional) web development, electronics and integrated systems for rapid prototyping, basic skills in different crafts / workshop and lab areas.

Human Centered Design - HCI, participatory design, UCD, CSCW, Design Thinking, convergence of agile and UCD.

Projects and People - Project development, social innovation, fundraising, agility / "Skunkworks", community and team development, operations (with)in public service and public administration.

Methods - Constructionism, human-centered teaching and learning, mixed-methods, action and field research, participatory methods and participatory action research, (Maker-)space(s) as a method.

Personal

Birth date: 12 June 1987

German: native, English: fluent, French: rudimentaire, Latin: obliviscebam. I enjoy camping, water, (working on) motorbikes, cooking and books.

Projects & funding

Maker in Residence is an effort at RUB-Makerspace to invite Makers from different disciplines to share knowledge. I co-led the first two funding rounds and managed the 2023 residency.

2023-today

Regional donors, 20-40.000€ p.a.

MentorINN is a project between three universities to found Ruhr School of Design Thinking, to support Design Thinking in academic teaching and to

2022-2024

snare course material. I was part of the proposal team and occasionally	
helped in the project.	
Stiftung Innovation in der Hochschullehre ('foundation for digital teaching	
in academia'), about 20.000€.	2010 2022
SMAPS - the center for smart production systems - was a research-	2019-2022
infrastructure project on additive fabrication and smart systems for	
industrial tooling (mainly forming processes). I was part of the proposal	
team and briefly involved in the ramp-up and procurement phase.	
European EFRE-fund (EFRE.NRW), about 3m€.	2047 2020
FAB 101 was a research project of four German universities on Fab Labs in	2017-2020
academia. It focused on cooperation, tools, education and infrastructure. I	
developed the core idea, led the proposal, was project manager and part	
of the operative team.	
Federal Ministry of Education and Research, about 1.2m€.	
YALLAH - "You All Are Hackers" was a student exchange / hackathon	2016-2018
project. Students from Palestine and Germany visited each other and	
worked on socio-economical issues and art using "maker-methods" (info	
slides from 2017). I developed the core idea after my own visits to Palestine	
as a student, led the proposal and helped recruit and set up the staff who	
took over. German Academic Exchange Service (DAAD), about 225.000€.	
ZEIT.RAUM Siegen was a project between a museum, three university	2016-2018
chairs and Fab Lab Siegen to develop a 3D-printed, interactive city model	
and a regional Wiki for a museum installation. I coordinated the ideation	
phase, wrote most of the proposals, was part of the negotiation team, built	
the first prototypes for model and wiki and recruited the project staff.	
Regional societies, University of Siegen, other sources, about 190.000€.	
Internet-Cafe4Refugees was a project we set up when Uni Siegen housed	2015-2016
hundreds of refugees. We provided tech support, hardware and internet	
connection together with the local freifunk.net community.	
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First Prize German Informatics Society Student Usability Challenge for

"Social Flashcards".

2013

Awards & honors

share course material. I was part of the proposal team and occasionally

Publications	Handbuch Fab Labs: Einrichtung, Finanzierung, Betrieb, Forschung & Lehre by Iris Bockermann, Jan Borchers, Anke Brocker, Marcel Lahaye,	2021
	Antje Moebus, Stefan Neudecker, Oliver Stickel, Melanie Stilz, Daniel Wilkens, René Bohne, Volkmar Pipek, Heidi Schelhowe. Bombini-Verlag.	
	shARe-IT: Ad hoc Remote Troubleshooting through Augmented Reality	2021
	by Thomas Ludwig, Oliver Stickel, Peter Tolmie, Malte Sellmer. Journal on Computer Supported Cooperative Work 30, pp. 119–167.	
	Fab:UNIverse - Makerspaces, Fab Labs and Lab Managers in Academia	2019
	(slides) by Oliver Stickel, Melanie Stilz, Anke Brocker, Jan Borchers, Volkmar Pipek. Workshop at Fab Learn Europe Conference '19.	
	Fab Lab Education in German Academia by Oliver Stickel, Anke Brocker,	2018
	Melanie Stilz, Antje Möbus, Iris Bockermann, Jan Borchers, Volkmar Pipek. Proceedings from the Fab14 Conference '18, pp. 39-46.	
	Praxisorientierte Projektstudie zur transdisziplinären Entwicklung	2018
	innovativer Produkte by Oliver Stickel, Stefan Krick, Timo Scherer, Tamara	
	Reinicke, Volkmar Pipek. Regional conference on innovative teaching.	
	Fab Labs and Interdisciplinary Academic Teaching: A research agenda	2018
	(poster) by Oliver Stickel, Melanie Stilz, Volkmar Pipek. Proceedings from the Fab Learn Europe Conference '18, pp. 104-105.	
	Computerclubs und Flüchtlingslager - Ein Diskussionsbeitrag zur	2017
	Forschungs- und Bildungsarbeit aus praxistheoretischer Perspektive by	
	Oliver Stickel, Konstantin Aal, Marén Schorch, Dominik Hornung, Alexander	
	Boden, Volker Wulf, Volkmar Pipek. In: Langreiter, N., Löffler, K. (eds.) - Do it! Yourself? Fragen zu (Forschungs-)Praktiken des Selbermachens.	
	transcript.	
	3D printing/digital fabrication for education and the common good by	2017
	Oliver Stickel, Konstantin Aal, Verena Fuchsberger, Sarah Rüller, Victoria	2011
	Wenzelmann, Volkmar Pipek, Volker Wulf, Manfred Tscheligi. Workshop at	
	Communities & Technologies conference '17.	
	MuC-Makerspace: Academic practices in Community Innovation and	2017
	(Digital) Fabrication by Oliver Stickel, Melanie Stilz, Volkmar Pipek.	
	Workshopband der Mensch & Computer Konferenz (MuC) '17.	
	User Integration in Agile Software Development Processes: Practices	2016
	and Challenges in Small and Medium Sized Enterprises by Oliver Stickel,	
	Corinna Ogonowkski, Timo Jacobi, Gunnar Stevens, Volkmar Pipek, Volker	
	Wulf. In: Cockton, G., Lárusdóttir, M., Gregory, P., Cajander, Å. (eds) -	
	Integrating User-Centred Design in Agile Development. Springer.	204.6
	Infrastructuring & Digital Fabrication by Oliver Stickel, Volkmar Pipek. In:	2016
	Mayr, H., Pinzger, M. (eds.) - INFORMATIK 2016, Lecture Notes in Informatics (LNI). Gesellschaft für Informatik.	
	Usability Quartett (Neuauflage und Erweiterung) by GermanUPA, Oliver	2016
	Stickel, Alisha Tilsner, Elisabeth Schwerdtner, Susanne Speh, Cindy	2010
	Waldinger. Method Cards, GermanUPA (see pitch).	
	Report series for SME on understanding users (1, 2, 3) by Oliver Stickel,	2016
	Sebastian Draxler, Volkmar Pipek et al. Wissenschaft trifft Praxis by "Mittelstand Digital". BMWI / BMWK.	2010
	3D Printing with Marginalized Children – An Exploration in a Palestinian	2015
	Refugee Camp by Oliver Stickel, Dominik Hornung, Konstantin Aal, Markus	
	Rohde, Volker Wulf. Proceedings of the 14th European Conference on Computer Supported Cooperative Work (ECSCW) '15, pp. 83-102.	
	Appropriating digital fabrication technologies - a comparative study of	2015
	two 3d printing communities (slides) by Thomas Ludwig, Oliver Stickel, Alexander Boden, Volkmar Pipek, Volker Wulf. Proceedings of the	
	iConference '15.	201-
	Praktiken der Nutzerintegration im Entwicklungsprozess von KMU (slides) by Oliver Stickel, Corinna Ogonowski, Timo Jakobi, Gunnar	2015

Stevens, Volkmar Pipek, Volker Wulf. Tagungsband der Mensch &	
Computer Konferenz (MuC) '15, pp. 103-112.	
Die richtige Frage zur richtigen Zeit: Ereignisbedingte Fragebogen-	2015
Studien mittels und über Smartphone-Apps by Julian Dax, Thomas	
Ludwig, Oliver Stickel, Volkmar Pipek. Workshopband der Mensch & Computer Konferenz (MuC) '15.	
3D Printing as a Means for Participation in Developmental Settings - A	2015
Field Study by Oliver Stickel, Dominik Hornung, Sarah Rüller, Volkmar	
Pipek, Volker Wulf. Proceedings of the Participatory Innovation Conference	
(PIN-C) '15.	
Educating the next generation of Makers - 3D Printing with	2015
marginalized refugee children: Exploring Making and digital fabrication	
from a HCI perspective through an exploratory field study in refugee	
camps in the West Bank. My master thesis at the institute for Information	
Systems and New Media & the CSCW research group, University of Siegen.	
(Open) Usability Method Toolkit. Open library of Usability and User	2015
Experience methods, originally in German as "CUBES-Methodenfinder".	
Has since been expanded on and translated by students at Fab Lab Siegen.	
Bottom-Up Kultur in Siegen: Ein Bericht über aktuelle Strukturen,	2014
Entwicklungen und Umnutzungsprozesse by Oliver Stickel, Alexander	2011
Boden, Gunnar Stevens, Volkmar Pipek, Volker Wulf. In: Habscheid, S.,	
Hoch, G., Schröteler-v. Brandt, H., Stein, V. (eds.) - DIAGONAL Jahrgang	
2014: Umnutzung - Alte Sachen, neue Zwecke. V&R unipress.	
-	2014
Beteilige Deine Nutzer! Fallstudie eines systematischen Vorgehens zur Integration von Nutzer-Feedback in agilen Entwicklungsprozessen by	2014
Sebastian Draxler, Oliver Stickel, Frank Rosswog, Gunnar Stevens.	
Wissenschaft trifft Praxis by "Mittelstand Digital", issue on User Experience	
- Positives Erleben betrieblicher IT, pp. 36-45. BMWI / BMWK.	
Towards Sociable Technologies: An Empirical Study on Designing	2014
Appropriation Infrastructures for 3D Printing by Thomas Ludwig, Oliver	
Stickel, Alexander Boden, Volkmar Pipek. Proceedings of the Designing	
Interactive Systems Conference (DIS) '14, pp. 835–844.	
Computer supported urban gardening (poster) by Oliver Stickel, Thomas	2014
Ludwig. Proceedings of the Designing Interactive Systems Conference (DIS)	
'14, pp. 77–80.	
Nutzerintegration in Softwareprojekte durch Multi-Channel Feedback.	2014
by Sebastian Draxler, Oliver Stickel, Dominique Winter, Gunnar Stevens.	
Tagungsband der Mensch & Computer Konferenz (MuC) '14, pp. 175-184.	
Playful, collaborative approaches to 3D modeling and 3D printing	2014
(poster) by Thomas von Rekowski, Alexander Boden, Oliver Stickel,	2021
Dominik Hornung, Gunnar Stevens. Tagungsband der Mensch & Computer	
Konferenz (MuC) '14, pp. 363-366.	
Computer im Grünen: IT-Systeme zur Unterstützung urbaner Gärten by	2014
Oliver Stickel, Thomas Ludwig, Volkmar Pipek. Tagungsband der Mensch &	
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3D Printers as Potential Boundary Negotiating Artifacts for Third Places	2014
(slides) by Thomas Ludwig, Oliver Stickel, Volkmar Pipek. Workshop	
Proceedings of the Designing Interactive Systems Conference (DIS) '14.	
Come_in@palestine: adapting a german computer club concept to a	2014
palestinian refugee camp by Konstantin Aal, George Yerousis, Kai	2017
Schubert, Dominik Hornung, Oliver Stickel, Volker Wulf. Proceedings of the	
conference on Collaboration Across Boundaries (CABS): culture, distance & technology '14, pp. 111-120.	
	204.4
Customer Feedback and UCD in Agile Software Development by Oliver	2014
Stickel, Sebastian Draxler, Gunnar Stevens. Workshop Proceedings of the NordiCHI '14.	
Come_IN: Expanding Computer Clubs Towards Tinkering and Making	2014
by Oliver Stickel, Dominik Hornung, Volkmar Pipek, Volker Wulf. Workshop	

Proceedings of the NordiCHI '14.

Unpublished

Talks & slides

Page navigation in touch based interfaces. My bachelor thesis at the Interactive Systems research group, University of Duisburg-Essen.	2012
Tu nicht so erwachsen! (excerpt) by Isabel Arnold, Johannes Bauer, Filip Bubenheimer, Julia Eib, Sarah Gekeler, Tobias Keinath, Luisa Klink, Jakob Köster, Jonka Mezger, Tien Loc Nguyen, Oliver Stickel, Sonja Zimmermann (eds.). Graduation book. Self-published (300pcs).	2006
XESCOE - x-tendable environment for soundcard operated experiments (user handbook, slides) by Benedikt Rudolph, Oliver Stickel, Niklas Reisser. Land Baden-Württemberg at Landesbildungsserver (offline since 2019).	2005
These might or might not be continued at some point. Thoughts and feedback are welcome!	
Towards a conceptual model of HCI and Making	
HCI motivations for establishing, positioning and operating a Fab Lab Poster draft on HCI and Fab Labs	
On self-expression through 3D printing / digital fabrication	
Literature review draft on Fab Labs and Makerspaces in academia	
On better interfaces for (educational) 3D modeling tools	
Der große Bruder in uns?	
Study proposal on the institutionalization of shared machine shops Proposal for a cultural probe study about domestic digital fabrication	
Troposarior a cultural probe study about domestic digital labrication	
Like most real work, the materials linked here have not been created alone. Thank you to all collaborators!	
Introduction to soldering Introduction to plastic recyling / Precious Plastic General Fab Lab / Makerspace introduction and safety: German / English	2023
Build your own air quality sensor (web-view)	2022
Introduction to Mixed Reality	
Microcontroller Basics (web-view) Introduction to CAD (two days)	
Introduction to measuring for electronics	
Introduction to making PCBs	
Introduction to CNC milling	
How to develop workshops in/for Makerspaces Introduction to and safety in digital/electronics labs (web-view)	2021
Guest lecture & workshop on Arduino for Female Entrepreneurs at RUB	
Q&A and 360-tour through RUB-Makerspace at Aachen Maker Meetup	
WTF is Fab Lab (Siegen)? (extended version: What is a Fab Lab)	2019
Prototyping with Arduino (semester-long seminar, English)	
Makerspaces, Fab Labs and Lab Managers in Academia Fab Lab guest lecture for Folkwang Fab Diplom at Folkwang Universität	
Talk & workshop on Fab Labs as culture labs	
Fab Labs & 3D printing guest lecture, faculty of engineering at Uni Siegen	2018
Guest lecture & workshop on Arduino in a nutshell with the Media	
Computing Group from RWTH Aachen at Folkwang Universität	
Socio-Informatics guest lecture for Current Topics in Media Computing and HCI at RWTH Aachen (podcast)	
Project FAB101	2017
Project ZEIT.RAUM Siegen	
Wissenschaftstheorie	
Using technology creatively for SMI/IHK Siegen Digital Eabrication in education (similar to 2019 WS on culture labe)	

Digital Fabrication in education (similar to 2019 WS on culture labs)

Children's university talk on how to make stuff Introduction to HCI (semester-long lecture & tutorial): German / English Fab Lab Siegen 2016 3D printing for beginners at MakerFaire Ruhr (see 2015 seminar) Demo session on user projects from Fab Lab Siegen for IHK Siegen (some of the projects see 2019 slides on culture labs) 3D printing for beginners at re:publica 2016 (see 2015 seminar) Interaction Design with Arduino (semester-long seminar, German) Workshop on Usability & User Experience: one day / two days 2015 3D printing (semester-long seminar, German) Making@Palestine talk & 3D printing workshop at re:publica 2015 Industrie 4.0 meets Making Appropriating digital fabrication: A study of two 3D printing communities Praktiken der Nutzerintegration im Entwicklungsprozess von KMU Makers@Palestine (at MakerFaire Hannover, Hackspace Siegen, others) 2014 Video of a talk about Fab Lab Siegen at WUD Siegen 2014 3D printing for beginners at MakerFaire Dortmund (see 2015 seminar) 3D printers as boundary (negotiating) artifacts On Fab Labs (Handout) 2013 Social Flashcards learning app concept Synchronous and asynchronous collaboration HackDock - a 3d printed Macbook accessory KUSi - launch of the Siegen usability competence center Tutorial development for an exergame for the elderly HCI-Lab Siegen (predecessor of Fab Lab Siegen) On User Experience 2012 Clifford Nass - the man who lied to his laptop John Dewey - art as experience Educational game prototype "Food Balance" (poster) 2011 Cindy Sherman Pathological Internet Use 3D animation project "Star Trek TOS" (the animation) 2010 **OpArt** Das (schwarze) Quadrat (Web-)Typografie (Handout) The perfect thing - Imco lighters

Additional links

Other files: Linked files from above and more are available here.

makerspace.rub.de / on GitLab / video tour

fablab-siegen.de / on GitHub / **videos:** 2018 - on Campus / 2020 - "Herrengarten" / 2023 - current space / 2021: Interview with Fab Lab

Siegen's community manager

fab101.de / on GitHub

fab-universe.de / on GitHub

yallah.exchange / exhibition.yallah.exchange

Usability Method Finder

wiki.zeitraum-siegen.de

World Usability Day Siegen

Interviews: Deutschlandfunk Kultur / Deutsche Welle / UPA / Radius 92.1 News articles: RUB-Makerspace at Mark51/7 / "Nachtbetrieb auf Mark 51/7" (pp. 8-9) / 3D printing with children / refugees at Fab Lab Siegen /

Fab Lab Siegen moving into the city

My old blog posts on the Fab Lab Siegen website