Oliver Stickel

Fab Lab manager, researcher, founder

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- cv-full.pdf / d cv-onepage.pdf
- ORCID / G Scholar / ResearchGate
- github.com/oliverstickel

Experience

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". Meta-Lab Rhein-Ruhr (in formation).

eputy 2020–2023

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.

2015-2019

2015-today

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.

2014-2019

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.

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

Dissertation work - About Fab Labs and Makerspaces 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, Fab Lab network, Chaos Computer Club, ver.di. 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 many 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 - UX design, HCI, usability methods, design thinking, convergence of agile and user centered methods.

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 and 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.
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

2023-today

2022-2024

share 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€.	
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€.	
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€ (funding brochure I designed).	
	2015 2016
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.	
Volunteer work, hardware donations and enough local funding for student	
aids to cover daily opening hours.	
Fab Lab Siegen [was my baby](https://fablab-siegen.de) for many years	2013-today
and my first real experience in regards to being a founder and the world of	2013 Coddy
fundraising. My old team is still running and growing the Lab and it has	
become local infrastructure.	
Calls for student projects, donations, other sources, about 100.000€ in	
money and more in hardware donations during the first three years. Later,	
funding strategies changed when the project became official university	
infrastructure. The spaces for the lab were and are co-sponsored by	
private-public partnerships.	
CUBES was a research project on community-based innovation in software	2012-2015
and usability for small and medium sized enterprises. I was involved as a	
student, then researcher, then (interim) project manager for the project	
reporting and closing.	
Federal Ministry for Economic Affairs and Energy, about 800.000€.	
Honorable Mention Paper Award, "Mensch und Computer" (M&C)	2015
conference for Praktiken der Nutzerintegration im Entwicklungsprozess von	2013
KMU (see below), German Informatics Society (GI).	
Arthur-Woll award for an exemplary master thesis , University of Siegen	2015
and association for the support of the economic faculty.	2013
pwc award for best graduate of the faculty, University of Siegen and	2015
PricewaterhouseCoopers.	2013
Scholarship Tallinn Summer School on research methods in Human-	2014
Computer interaction University of Ciones	701 4

Computer interaction, University of Siegen.

Awards and honors

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

Informatics Society (GI).	
Handbuch Fab Labs: Einrichtung, Finanzierung, Betrieb, Forschung & Lehre by Iris Bockermann, Jan Borchers, Anke Brocker, Marcel Lahaye, Antje Moebus, Stefan Neudecker, Oliver Stickel, Melanie Stilz, Daniel Wilkens, René Bohne, Volkmar Pipek, Heidi Schelhowe. Bombini-Verlag.	2021
shARe-IT: Ad hoc Remote Troubleshooting through Augmented Reality by Thomas Ludwig, Oliver Stickel, Peter Tolmie, Malte Sellmer. Journal on Computer Supported Cooperative Work 30, pp. 119–167.	2021
Fab:UNIverse - Makerspaces, Fab Labs and Lab Managers in Academia (slides) by Oliver Stickel, Melanie Stilz, Anke Brocker, Jan Borchers, Volkmar Pipek. Workshop at Fab Learn Europe Conference '19.	2019
Fab Lab Education in German Academia by Oliver Stickel, Anke Brocker, Melanie Stilz, Antje Möbus, Iris Bockermann, Jan Borchers, Volkmar Pipek. Proceedings from the Fab14 Conference '18, pp. 39-46.	2018
Praxisorientierte Projektstudie zur transdisziplinären Entwicklung innovativer Produkte by Oliver Stickel, Stefan Krick, Timo Scherer, Tamara Reinicke, Volkmar Pipek. Poster for a regional conference on innovations in teaching.	2018
Fab Labs and Interdisciplinary Academic Teaching: A research agenda (poster) by Oliver Stickel, Melanie Stilz, Volkmar Pipek. Proceedings from the Fab Learn Europe Conference '18, pp. 104-105.	2018
Computerclubs und Flüchtlingslager - Ein Diskussionsbeitrag zur 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.	2017
Transcript. 3D printing/digital fabrication for education and the common good by Oliver Stickel, Konstantin Aal, Verena Fuchsberger, Sarah Rüller, Victoria Wenzelmann, Volkmar Pipek, Volker Wulf, Manfred Tscheligi. Workshop at Communities & Technologies conference '17.	2017
MuC-Makerspace: Academic practices in Community Innovation and (Digital) Fabrication by Oliver Stickel, Melanie Stilz, Volkmar Pipek. Workshopband der Mensch & Computer Konferenz (MuC) '17.	2017
User Integration in Agile Software Development Processes: Practices 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.	2016
Infrastructuring & Digital Fabrication by Oliver Stickel, Volkmar Pipek. In: Mayr, H., Pinzger, M. (eds.) - INFORMATIK 2016, Lecture Notes in Informatics (LNI). Gesellschaft für Informatik.	2016
Usability Quartett (Neuauflage und Erweiterung) by GermanUPA, Oliver Stickel, Alisha Tilsner, Elisabeth Schwerdtner, Susanne Speh, Cindy Waldinger. Method Cards, GermanUPA (see pitch).	2016
Report series for SME on understanding users (1, 2, 3) by Oliver Stickel, Sebastian Draxler, Volkmar Pipek et al. Wissenschaft trifft Praxis by "Mittelstand Digital". BMWI / BMWK.	2016
3D Printing with Marginalized Children – An Exploration in a Palestinian 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.	2015
Appropriating digital fabrication technologies - a comparative study of two 3d printing communities (slides) by Thomas Ludwig, Oliver Stickel,	2015

First Prize "Student Usability Challenge" for Social Flashcards, German

Publications

2013

Alexander Boden, Volkmar Pipek, Volker Wulf. Proceedings of the iConference '15.	
Praktiken der Nutzerintegration im Entwicklungsprozess von KMU	2015
(slides) by Oliver Stickel, Corinna Ogonowski, Timo Jakobi, Gunnar	
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 Field Study by Oliver Stickel, Dominik Hornung, Sarah Rüller, Volkmar Pipek, Volker Wulf. Proceedings of the Participatory Innovation Conference (PIN-C) '15.	2015
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	2013
Systems and New Media & the CSCW research group, University of Siegen.	
(Open) Usability Method Toolkit. Open library of Usability and User Experience methods, originally in German as "CUBES-Methodenfinder". Has since been expanded on and translated by students at Fab Lab Siegen.	2015
Bottom-Up Kultur in Siegen: Ein Bericht über aktuelle Strukturen,	2014
Entwicklungen und Umnutzungsprozesse by Oliver Stickel, Alexander 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.	
Beteilige Deine Nutzer! Fallstudie eines systematischen Vorgehens zur	2014
Integration von Nutzer-Feedback in agilen Entwicklungsprozessen by	
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. by Sebastian Draxler, Oliver Stickel, Dominique Winter, Gunnar Stevens. Tagungsband der Mensch & Computer Konferenz (MuC) '14, pp. 175-184.	2014
Playful, collaborative approaches to 3D modeling and 3D printing	2014
(poster) by Thomas von Rekowski, Alexander Boden, Oliver Stickel, 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 & Computer Konferenz (MuC) '14, pp. 303-306.	
3D Printers as Potential Boundary Negotiating Artifacts for Third Places (slides) by Thomas Ludwig, Oliver Stickel, Volkmar Pipek. Workshop	2014
Proceedings of the Designing Interactive Systems Conference (DIS) '14.	
Come_in@palestine: adapting a german computer club concept to a palestinian refugee camp by Konstantin Aal, George Yerousis, Kai Schubert, Dominik Hornung, Oliver Stickel, Volker Wulf. Proceedings of the conference on Collaboration Across Boundaries (CABS): culture, distance & technology '14, pp. 111-120	2014

Customer Feedback and UCD in Agile Software Development by Oliver Stickel, Sebastian Draxler, Gunnar Stevens. Workshop Proceedings of the NordiCHI '14.	2014
Come_IN: Expanding Computer Clubs Towards Tinkering and Making by Oliver Stickel, Dominik Hornung, Volkmar Pipek, Volker Wulf. Workshop Proceedings of the NordiCHI '14.	2014
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	
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Like most real work, the materials linked here have not been created alone. Thank you to all collaborators!	
Like most real work, the materials linked here have not been created alone. Thank you to all collaborators! Introduction to soldering	2023
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Unpublished work

Talks & slides

Project FAB101	2017
Project ZEIT.RAUM Siegen	
Wissenschaftstheorie	
Children's university talk on how to make stuff	
Introduction to HCI (semester-long lecture & tutorial): German / English	
Fab Lab Siegen	2016
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 2016 Industrie 4.0 meets Making	
Appropriating digital fabrication: A study of two 3D printing communities	
Praktiken der Nutzerintegration im Entwicklungsprozess von KMU	
Makers at Palestine (talk at Hackspace Siegen, among others)	2014
Video of a talk about Fab Lab Siegen at WUD Siegen 2014	
3D printers as boundary (negotiating) artifacts	
Social Flashcards learning app concept	2013
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 Fab Labs (Handout)	
Clifford Nass - the man who lied to his laptop	2012
John Dewey - art as experience	
On User Experience	
Educational game prototype "Food Balance" (poster)	2011
Cindy Sherman	
Pathological Internet Use	
3D animation project "Star Trek TOS" (the animation)	
OpArt	2010
Das (schwarze) Quadrat	
The perfect thing - Imco lighters	
(Web-)Typografie (Handout)	

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

WAZ news article on RUB-Makerspace at Mark51/7

"Nachtbetrieb auf Mark 51/7" with a look at RUB-Makerspace on pp. 8-9

Interview "Deutsche Welle" about Fab Labs

WP news article on 3D printing with children

News article on working with refugees at Fab Lab Siegen

Interview "Deutschlandfunk Kultur" on Makers

Usability Method Finder

wiki.zeitraum-siegen.de

World Usability Day Siegen

My old blog posts on the Fab Lab Siegen website