

# Oliver Stickel

Fab Lab Manager & Founder

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## Experience

- Self-employed researcher, consultant & writer.** Consultation work for organizations interested in Fab Labs, Makerspaces and Community Innovation Spaces. Book project "Handbuch Fab Labs". Meta-Lab Rhein-Ruhr (in formation). 2015–today
- 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. 2020–2023
- Researcher, project manager, lecturer.** 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 to a wonder- and colorful, open and community-oriented space of about 300sqm with a funded team and filled with people, ideas, tools and machines right in the city center. Siegen. 2013–2019
- TA, student researcher.** During my student times, I was a teaching assistant (mostly in HCI), assisted in different research projects (mostly with qualitative field research) and was in IT and media tech support/maintenance. Universities of Siegen and Duisburg-Essen. 2009–2015

## Education

- 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

## 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. 2023–today
- MentorINN** is a project between three universities to found Ruhr School of Design Thinking, to support Design Thinking in academic teaching and to 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€. 2022–2024
- SMAPS** - the center for smart production systems - was a research-infrastructure project on additive fabrication and smart systems for 2019–2022

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 academia. It focused on cooperation, tools, education and infrastructure. I developed the core idea, led the proposal and was overall project manager as well as part of the operative team.

Federal Ministry of Education and Research, about 1.2m€.

2017–2020

**YALLAH** - “You All Are Hackers” was a student exchange / hackathon project. Students from Palestine and Germany visited each other, worked on socio-economical issues using “maker-methods” and created an art exhibition. 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€.

2016–2018

**ZEIT.RAUM Siegen** was a project between a museum, three university 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.

2016–2018

Regional societies, University of Siegen, other sources, about 190.000€ (funding brochure I designed).

**Internet-Cafe4Refugees** was a project we set up when Uni Siegen housed hundreds of refugees. We provided tech support, hardware and internet connection together with the local freifunk.net community.

2015–2016

Volunteer work, hardware donations and enough local funding for student aids to cover daily opening hours.

**Fab Lab Siegen** was my baby for many years and my first real experience in regards to being a founder and the world of 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.

2013–today

**CUBES** was a research project on community-based innovation in software 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.

2012–2015

Federal Ministry for Economic Affairs and Energy, about 800.000€.

## Selected Publications

**Handbuch Fab Labs: Einrichtung, Finanzierung, Betrieb, Forschung & Lehre** by Iris Bockermann, Jan Borchers, Anke Bocker, 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** by Oliver Stickel, Melanie Stilz, Anke Bocker, Jan Borchers, Volkmar Pipek. Workshop at Fab Learn Europe Conference '19.

2019

**Fab Lab Education in German Academia** by Oliver Stickel, Anke Bocker, Melanie Stilz, Antje Möbus, Iris Bockermann, Jan Borchers, Volkmar Pipek. Proceedings from the Fab14 Conference '18, pp. 39-46.

2018

**Computerclubs und Flüchtlingslager - Ein Diskussionsbeitrag zur Forschungs- und Bildungsarbeit aus praxistheoretischer Perspektive** by Oliver Stickel, Konstantin Aal, Marén Schorch, Dominik Hornung, Alexander

2018

Boden, Volker Wulf, Volkmar Pipek. Tagungsband Do it! Yourself? Fragen zu (Forschungs-)Praktiken des Selbermachens.

**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

**User Integration in Agile Software Development Processes: Practices and Challenges in Small and Medium Sized Enterprises** by Oliver Stickel, Corinna Ogonowski, 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

**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

**Bottom-Up Kultur in Siegen: Ein Bericht über aktuelle Strukturen, Entwicklungen und Umnutzungsprozesse** by Oliver Stickel, Alexander Boden, Gunnar Stevens, Volkmar Pipek, Volker Wulf. In: DIAGONAL - University of Siegen's annual journal 35, pp. 55–70 (2014). 2014

**Towards Sociable Technologies: An Empirical Study on Designing 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. 2014  
Full publication list: [researchgate.net/profile/oliver-stickel](https://researchgate.net/profile/oliver-stickel).

## Community roles

I (co-)chaired Fab:UNiverse - the annual conference of Fab Lab managers at German universities - multiple times and help maintain its website. I've also (co-)organized many different events, temporary (Maker)spaces and meetups such as the World Usability Day Siegen (2014-2018). I'm a member of the Verbund Offener Werkstätten, the global Fab Lab network and the United Services Trade Union ver.di.

I have been an elected member of different bodies of (self)-governance such as the Senate commission on Strategic University Development at Uni Siegen and head of the student representatives ("Fachschaftsräte") at Uni Duisburg-Essen and at Uni Siegen respectively. Occasionally, I've been asked to join expert committees about innovation and community spaces. As a researcher, I was reviewer/chair for conferences and journals like CHI, JCSCW, C&T or M&C.

## 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 the practical part (and a lot of the lectures) of the annual introduction to Human Computer Interaction for many years, i.e. 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 taught and learned whatever was needed to help many different Makerspace community members from (many different) disciplines with their - many different - projects. I've also held lots of safety and infrastructure introductions.

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.

Awards and honors	<b>Honorable Mention Paper Award</b> , "Mensch und Computer" (M&C) conference of the German Informatics Society (GI).	2015
	<b>Best Graduate of the faculty</b> , University of Siegen.	2015
	<b>Scholarship</b> Tallinn Summer School on research methods in Human-Computer interaction, University of Siegen.	2014
	<b>First Prize</b> Student Usability Challenge, German Informatics Society (GI).	2013

Skills in Keywords	<b>Making</b> - 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.
	<b>Human Centered Design</b> - UX design, HCI, usability methods, design thinking, convergence of agile and user centered methods.
	<b>Projects and People</b> - Project development, social innovation, fundraising, agility / Skunkworks, community and team development, operations (with)in public service and public administration.
	<b>Methods</b> - Constructionism, human-centered teaching and learning, mixed-methods, action and field research, participatory methods and participatory action research, (Maker-)space(s) as a method.

Languages	Native: German
	Fluent: English
	Rudimentary: French

Links	<a href="http://makerspace.rub.de">makerspace.rub.de</a> / on GitLab / video tour
	<a href="http://fablab-siegen.de">fablab-siegen.de</a> / on GitHub / videos: 2018 - on Campus, 2020 - "Herrengarten", 2023 - current space
	<a href="http://fab101.de">fab101.de</a>
	<a href="http://fab-universe.de">fab-universe.de</a> / on GitHub
	<a href="http://yallah.exchange">yallah.exchange</a> / <a href="http://exhibition.yallah.exchange">exhibition.yallah.exchange</a>
	Interview "Deutsche Welle" about Fab Labs
	News article on 3D printing with children
	News article on working with refugees at Fab Lab Siegen
	Interview "Deutschlandfunk Kultur" on Makers
	A talk by me about Fab Lab Siegen (from way back when)
	Guest lecture on Socio-Informatics at RWTH Aachen
	Usability Method Finder
	My old blog posts on the Fab Lab Siegen website

Personal	Birth date: 12 June 1987
	I enjoy camping, water, (working on) motorbikes, cooking and books.