

Danny Leen

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Employment

DIGITAL FABRICATION RESEARCHER P.H.D. – 2015-2021

LUCA school of arts / KU Leuven, Genk

Advisors: Dr. Veerle Van Der Sluys (LUCA), Dr. Marc Lambaerts (KU Leuven), Prof. dr. Kris Luyten (UHasselt), Prof. dr. Raf Ramakers(UHasselt), Dries Verbruggen (Unfold)

ASSOCIATED RESEARCHER EDM – 2019-2021

Expertise center for Digital Media / UHasselt, Diepenbeek Belgium

MANAGER/FOUNDER FABLAB GENK – 2011-PRESENT

Fablab Genk / LUCA school of arts, Genk

LECTURER – 2010-PRESENT

Fablab Genk / LUCA school of arts, Genk

Education

Master Communication and Media Design (with honors), Genk – 2009-2010

- Thesis: Haptic Feedback for Digital Music Creation
Advisor: Dr. Bart Geerts (LUCA), Thomas Laureyssens (LUCA)

Bachelor Communication and Media Design, Genk – 2006-2009

Scientific Publications

StackMold: Rapid Prototyping of Functional Multi-Material Objects with Selective Levels of Surface Details. Tom Valkeneers, Danny Leen, Daniel Ashbrook, Raf Ramakers
In Proceedings of UIST, 2019

JigFab: Computational Fabrication of Constraints to Facilitate Woodworking with Power Tools. Danny Leen, Tom Veuskens, Kris Luyten, Raf Ramakers
In Proceedings of CHI, 2019

Unitless: Modeling and fabricating objects without measuring tools Danny Leen, Marc Lambaerts. In proceedings from the Fab14+ Fabricating Resilience Research Papers Stream, 2018

StrutModeling: A Low-Fidelity Construction Kit to Iteratively Model, Test, and Adapt 3D Objects. Danny Leen*, Raf Ramakers*, Kris Luyten
In Proceedings of UIST, 2017

From parametric design to tangible interfaces: lowering the threshold for making. Danny Leen, Katrien Dreessen, Marc Lambaerts. Paper presented at Fab12, Shenzhen, 2016

From Hacking Things to Making Things. Rethinking making by supporting non-expert users in a FabLab. Katrien Dreessen, Selina Schepers, Danny Leen. IxD&A 30, 47-64, 2016

Participatory design and participatory making in a FabLab: challenges for users and designers. Katrien Dreessen, Jessica Schoffelen, Danny Leen, Ollivier Piquera. Proceedings of the 3rd European Conference on Design4Health, Sheffield, 2015

Break-it, hack-it, make-it: the 'Hack-a-Thing' workshop series as a showcase for the integration of creative thinking processes into FabLab Genk. Katrien Dreessen, Selina Schepers, Danny Leen, Kris Luyten, Tom De Weyer, Johannes Taelman in A Matter of Design|Proceedings of the 5th STS Italian Conference, 2014

Great Expectations and Big Challenges: A FabLab as facilitator for personal fabrication of tools to self-manage diabetes. Katrien Dreessen, Jessica Schoffelen, Danny Leen, Ollivier Piquera. All Makers Now? Conference Journal 1, 37-44, 2014

Hack-a-thing: A Series of FabLab Genk Workshops for Reusing and Repurposing Depreciated Objects. Tom De Weyer, Johannes Taelman, Kris Luyten, Danny Leen, Selina Schepers, Katrien Dreessen. First European Fab Lab Conference FabLabCon, 2013

Patents

2019: Danny Leen, Tom Veuskens, Kris Luyten, Raf Ramakers. Computational Fabrication of Constraints to Facilitate Woodworking with Power Tools.

Teaching

2011 - present: MediaLab at Communication and Media Design, Genk

2012 - present: Interactieontwikkeling at Communication and Media Design, Genk

2012 - present: Physical computing at Communication and Media Design, Genk

2015 - 2016: Prototyping Product Design, Genk

2014 - 2017: Design op maat at Communication and Media Design, Genk

2013 - 2014: Public space at Communication and Media Design, Genk

2012 - 2013: Nieuwe media at Sint Lucas Antwerpen

Research Internship – Summer 2019

Machine Agency - University of Washington - Advisor: Prof. Nadya Peek (funded by FWO)

External Reviewer:

- ▶ TEI 2018, 2019
- ▶ UIST 2018
- ▶ CHI 2019
- ▶ UIST 2020

External Presentations

Lab presentation:

- Invited talk at Benelux fablabs, Leuven, 2016
- Invited talk at Interregional Fab Talks NW Europe, 2014
- Invited talk at FAB9, Yokohama, 2013
- Invited talk at FAB8, New Zealand, 2012

Invited talk at The Machine, the future of making , 2013

Invited talk at DorkBotBRU#6, 2010