

Dan Wilcox

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danomatika.com

Work History

2017-present Artist-Scientist

Hertz-Lab (former Institute for Music & Acoustics), [ZKM | Center for Art & Media](#); Karlsruhe, DE

2015-2017 Visiting Teaching Assistant Professor

[Emergent Digital Practices](#), University of Denver; Denver, CO USA

2014-2015 Freelance Artist & Engineer

Pittsburgh, PA USA

2010-2013 Researcher & Technical Assistant

[Studio for Creative Inquiry](#), Carnegie Mellon University; Pittsburgh, PA USA

2008-2010 Creative Engineer

[Ars Electronica Futurelab](#); Linz, AT

2007 Electronics Assembly Technician

[TouchTable AB](#); Gothenburg, SE

2003-2006 (Summers) High Adventure Director

Boy Scouts of America, [Camp Sequoyah](#); Delta, AL USA

Education

2010-2013 Master of Fine Arts

Thesis: [“I’m Not An Astronaut But I Play One On TV”](#)

[School of Art](#), Carnegie Mellon University; Pittsburgh, PA USA

2007 MS Art & Technology

Thesis: [“robotcowboy: A One-Man Band Musical Cyborg”](#)

Chalmers University of Technology; Gothenburg, Sweden

2005 BS Computer Engineering

Iowa State University; Ames, IA USA

Selected Work, Exhibitions, & Performances

2023

Noble Brass (performance), Oribotic Instrument presentation, Ars Electronica Festival; Linz DE

FreeStyler, [The intelligent.museum is is around the corner](#) exhibition, ZKM; Karlsruhe DE

2022

robotcowboy (performance), Pikel 2022 festival; Bergen NO

2021

[ShadowPlay \(application\)](#), Seasons of Media Arts festival; Karlsruhe DE

[SpeedPitch \(application\)](#), Nix Wie Raus! Bicycle Art Summer exhibition; BBK, Karlsruhe DE

2020

Tether (installation), A-dela? | Is it working? festival; Match Gallery, Ljubljana SL

robotcowboy (livestream), A-dela? | Is it working? festival; CD Club, Ljubljana SL

2019

[NCS_HypogeanCity](#), Between 2019 Festival, Royal College of Music (KMH), Stockholm SE

[NCS_HypogeanCity \(w/ Ludger Brümmer & Yannick Hofmann\)](#), IN VITRØ Festival; Matera IT

Code of Colors (w/ Peter Weibel), Seasons of Media Arts festival; Karlsruhe, DE

2018

Next City Sounds (performance w/ Yannick Hofmann), ARD Hörspieltage, ZKM; Karlsruhe DE

Tether (installation), Open Codes 2.0 Exhibition, ZKM; Karlsruhe, DE

robotcowboy, EASTN-DC Conference, Uni of Manchester; Manchester UK

Next City Sounds (stream event), KAMUNA 2018, ZKM; Karlsruhe, DE

robotcowboy (presentation & performance), NIME 2018, Virginia Tech; Blacksburg VA USA

2017

[Balloon Project](#), Lab30 Media Art Festival; Kulturhaus Abraxas, Augsburg DE
[MusiCode & LindenmayerExplorer](#), Open Codes exhibition, ZKM; Karlsruhe DE

2016

[Trust Me](#) (w/ [Anika Hirt](#)), [Roböexotica](#) Festival for Cocktail Robotics; Vienna Austria
[robotcowboy: Cabled Madness](#), [Pure Data Convention](#); New York, NY USA
[robotcowboy: Cabled Madness](#), AutumnLEAF Performance Festival; Lafayette, CO USA
[My Wiggly World](#) (solo show & performance), 701 (gallery & art space); Denver, CO USA

2015

[SPACE ART: An Evening in the Stars](#), Neu Kirche Contemporary Art Center; Pittsburgh, PA USA
[robotcowboy: Onward to Mars](#), Mars New Year; Mars, PA USA

2014

[robotcowboy: Onward to Mars](#), New Hazlett Theater; Pittsburgh, PA USA

2013

[robotcowboy: Cabled Madness](#), OnSite Digital Performance Festival; Taipei, Taiwan
[Return of the Spirit of Molten Iron](#), [AlloyPGH](#); Pittsburgh/Rankin, PA USA
[Heading to Mars](#), MFA Thesis Exhibition, CMU Miller Gallery; Pittsburgh, PA USA

2012

[Cyborg Cabaret](#) (w/ roboticist [Heather Knight](#)), New Hazlett Theater; Pittsburgh, PA USA
[Robot Rumble](#), Extra Fancy CMU MFA Exhibition; Pittsburgh, PA USA

2011

[Venice Mouth](#); Pittsburgh, PA USA
[robotcowboy: Cabled Madness](#), [Pure Data Convention](#); Weimar, Germany
[Balloon Project](#), Fresh Baked Goods CMU MFA Exhibition; Pittsburgh, PA USA
[High Speed Photo Booth](#), technical implementation, Wats:On Festival; Pittsburgh, PA
[robotcowboy: Cabled Madness](#), [VIA](#) Presents; Pittsburgh, PA USA

2010

[Kinect Titty Tracker](#); Pittsburgh, PA USA
[robotcowboy: Cabled Madness](#), [Tactics & Practices Festival](#); Ljubljana, Slovenia
[robotcowboy: Cabled Madness](#), [Mapping Festival](#); Geneva, Switzerland

2009

[robotcowboy: Cabled Madness on the AEC Media Facade](#), [Ars Electronica Festival](#); Linz, Austria
[robotcowboy: Cabled Madness on tour](#), [SubOptimal Summer 09 Tour](#), Europe
[robotcowboy: Cabled Madness](#), [New Media Meeting](#); Norrköping, Sweden
[robotcowboy: Cabled Madness](#), [Altavox Electronic Music Festival](#); Venice, Italy

[robotcowboy: Cabled Madness](#), [STRP Festival](#); Eindhoven, Netherlands

2008

[robotcowboy: Cabled Madness](#), STEIM Micro Music Jamboree 2; Amsterdam, Netherlands

[Open Frameworks Lab](#), Ars Electronica Festival; Linz, Austria

soundMetal, Interactivos? Double Take Exhibition, Eyebeam; New York, NY USA

[robotcowboy: Cabled Madness](#), [Signal+Noise Festival](#); Vancouver, Canada

[robotcowboy: Cabled Madness on tour](#); [Consoles Afire Tour](#); USA

2007

[robotcowboy: Cabled Madness](#), [Pure Data Conference](#); Montreal, Canada

[robotcowboy: Cabled Madness](#), [Norberg Electronic Music Festival](#); Norberg, Sweden

[robotcowboy: Cabled Madness](#), [Digital Art Weeks](#); Zurich, Switzerland

2005-2006

[Praya Dubia](#) & *Photo Acoustic Plantae*, Future Exhibition, IT Ceum; Linköping, Sweden

[Recharge](#), Art & Tech Spring Exhibition, 141an; Göteborg, Sweden

[Rhythm of the Night & Golden](#), Public Performance; Gothenburg, Sweden

Selected Presentations

2022 *ShadowPlay*, Píksel 2022 festival; Bergen NO

2020 *Zirkonium 3.7*, InSonic 2020: syntheses, ZKM; Karlsruhe DE

2018 *Zirkonium 3.4*, InSonic Festival, ZKM; Karlsruhe DE

2018 robotcowboy; Gulaschprogrammierenacht 2018, HfG; Karlsruhe DE

2018 robotcowboy, NIME 2018 conference; Uni of Virginia; Blacksburg VA USA

2017 robotcowboy and PdParty; Synthesizing Sound class, KHM Köln; Cologne DE

2016 PdParty, libpd, & Mobile Music Apps; Pure Data Conference; New York, NY USA

2015 PechaKucha Night Pittsburgh Vol. 21; AIA & AIGA w/ GPAC; Pittsburgh, PA USA

2015 [SIX x ATE](#) (artist dinner/lecture series); Pittsburgh, PA USA

2014 i5 Video Awards (guest speaker); Carnegie Science Center; Pittsburgh, PA USA

2014 [AV Synthesis Workshop](#); Dartmouth College; Hanover, NH USA

2014 [Heading to Mars](#) & [Onward to Mars](#); [17th Mars Society Convention](#); Houston, TX USA

2011 [Art && Code 3D](#); Carnegie Mellon University; Pittsburgh, PA USA

2009 [robotcowboy: Cabled Madness](#), [New Media Meeting](#); Norrköping, Sweden

2009 [robotcowboy: Cabled Madness](#), [Liwoli Linux FLOSS Hacklab](#); Linz, Austria

2007 *robotcowboy thesis presentation*, Art & Tech Final Exhibition; Gothenburg, Sweden

Residencies

- 2016** [Q21 AiR Program](#) w/ Anika Hirt, MuseumsQuartier Wien; Vienna, Austria
- 2013** [AlloyPGH](#) @ the Carrie Furnace NHP; Pittsburgh/Rankin, PA USA
- 2013** Studio for Creative Inquiry, Carnegie Mellon University; Pittsburgh, PA USA
- 2012** Member of Crew 119, [Mars Desert Research Station](#); Hanksville, UT USA
- 2012** *robotcowboy 2.0*, [ArtHackDay](#), 319 Scholes; Brooklyn, NY USA
- 2010** *soundMetal*, Interactivos? @ Eyebeam; New York, NY USA
- 2010** Studio for Electro-Instrumental Music (STEIM); Amsterdam, Netherlands
- 2007** Studio for Electro-Instrumental Music (STEIM); Amsterdam, Netherlands

Awards/Grants

- 2021** [UNESCO City of Media Arts Karlsruhe](#) and City of Karlsruhe: ShadowPlay development
- 2021** Nix Wie Raus! Bicycle Art Summer exhibition: SpeedPitch development
- 2014** *SPACE ART: An Evening in the Stars*: PA Council on the Arts Project Stream grant
- 2013** *robotcowboy: Onward to Mars*: selected for the [New Hazlett CSA performance series](#)
- 2013** *robotcowboy: Onward to Mars*: [Frank-Ratchye Fund for Art @ the Frontier \(FRFAF\) grant](#)
- 2012** CMU School of Art & College of Fine Art fund to attend the [Mars Desert Research Station](#)
- 2011** *Cyborg Cabaret*: CMU School of Art Interdisciplinary Award

Academic Positions

2015-2017 Visiting Teaching Assistant Professor

Emergent Digital Practices, University of Denver; Denver, CO USA

2010-2013 Graduate Teaching Assistant

School of Art, Carnegie Mellon University; Pittsburgh, PA USA

2007 Interactive Installations, Graphics Programming Using Processing

C:Art:Media, Valand School of Fine Arts; Gothenburg, Sweden

2006 Electronics Lab Teaching Assistant

Chalmers University of Technology; Gothenburg, Sweden

Selected Workshops

2022 Intro to Pure Data & PdParty

Leonardo Zentrum, Nuremberg DE

2019 Zirkonium (w/ Ludger Brümmer)

[Between 2019 Festival](#), Royal College of Music (KMH); Stockholm SE

2018 MicroOrchestra: Elektroakustische Laptop-Performances with PureData

Gulaschprogrammierenacht 2018, ZKM; Karlsruhe DE

2013 Bang Your Head: Making Noise with Pure Data

Part of the [Wats:ON 2013: NOISE festival](#); CMU, Pittsburgh, PA USA

2007 Let's Etch PCBs!

For C:Art:Media students, Brumm Studios; Gothenburg, Sweden

Selected Publications

Full list available online: <http://danomatika.com/publications>

2018 Paper & Presentation: [robotcowboy: 10 Years of Wearable Computer Rock](#)

NIME'18; Virginia Tech, Blacksburg, VA USA

2016 Paper: [PdParty: An iOS Computer Music Platform using libpd](#)

2016 Paper: [libpd: Past, Present, and Future of Embedding Pure Data](#)

5th Pure Data Convention; NYU Waverly Labs; New York, NY USA

2014 Papers & Presentations: [Heading to Mars & robotcowboy: Onward to Mars](#)

17th Annual Mars Society Convention proceedings; Houston, TX USA

2013 Book: [Heading to Mars](#) (ISBN 2810000150197)

Mars Desert Research Station Field Journal, self-published both digitally and in print

2007 Poster: [Experiments in Energy: 3 Technological Acts](#)

Digital Art Weeks, ETH; Zurich, Switzerland

2007 Paper: [robotcowboy](#)

Mobile Music Workshop, STEIM; Amsterdam, Netherlands

Peer Review Participation

2016 Pure Data Conference, NYU Waverly Labs; New York, NY USA

2011 Pure Data Conference, Bauhaus University; Weimar, Germany

2008 Mobile Music Workshop, STEIM; Amsterdam, Netherlands

Skills

C/C++, Obj-C/Cocoa/iOS, OpenGL, OpenFrameworks, Pure Data, Arduino, Processing, Python, Ruby, BASH/Shell, Assembly, Java, PHP, VHDL, Latex, Unix/Linux

Graphics programming and large scale distributed multi-screen graphics applications

PCB, Embedded, and Computer Hardware Design and Implementation

Audio Recording and Live Engineering

Live performance and the performing arts with various bands and music projects

Ability to develop, learn, and apply new concepts quickly

Eagle Scout

German language (A-B level)

References

[Ludger Brümmer](#), Former Director

[ZKM | Hertz-Lab](#)

Center for Art and Media Karlsruhe; Karlsruhe DE

lb@zkm.de

[Christopher Coleman](#), Associate Professor

[Emergent Digital Practices Program](#)

University of Denver; Denver, CO USA

christopher.coleman@du.edu

[Golan Levin](#), Assistant Professor of Art (MFA advisor)

Director of the [CMU Studio for Creative Inquiry](#)

School of Art, Carnegie Mellon University; Pittsburgh, PA USA

golan@andrew.cmu.edu