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Experience

U of Colorado / Assistant Professor

Aug 2020 - present

I teach studio and lecture classes on art and media creation in the Department of Critical Media Practices.

Cycling '74 / Software Engineer and Research

Sep 2011 - 2020

- Constructed prototypical packaging system allowing users to store, browse, and load Max/Msp patches and dependencies via http.
- Wrote C extension for Max/Msp that wraps libcurl and provides easy http api.
- Designed and developed full authorization and authentication system to copy protect our flagship software, including rsa signed licenses, user and license database management, and hook-in to payment system for 100k+ user base.
- Designed a fast, flexible, and efficient web blogging and forum software that integrates with our application
- Designed and implemented backend for package server that allows users to search and install Max/Msp packages.

U of San Francisco / Adjunct Professor

Jan 2012 - May 2012

Taught intro design/prototyping concepts for Processing and Arduino.

UC Santa Cruz / Research Associate

Sep 2012 - May 2012, Sta. Cruz

Designed and developed unique database of food-web interactions.

UC Santa Barbara / Research Associate, [BioImage Lab](#)

Sep 2005 - May 2008, Sta. Barbara

Research in the area of volume rendering, multimedia database applications, and high resolution tiled display systems.

[Ars Electronica Futurelab](#) / Production Assistant, Director of Artists in Residence

Jan 1998 - Jan 2000, Linz, Austria

[ORF Kunstradio](#) / Production Assistant

Jan 1996 - Jan 1998, Vienna, Austria

Education

University of California Santa Barbara / PhD, Media Arts & Technology

September 2007 - September 2011, Sta. Barbara, CA

My dissertation, titled "Re-Framing the World Wide Web", was a creative and speculative research project that aimed to produce a prototypical and alternative World Wide Web. I built a unique browser, called the [Underweb](#), that would run code in multiple languages allowing the user to read, write and publish online in various media formats.

University of California Santa Barbara / MS, Media Arts & Technology

Sep 2003 - Sep 2005, Sta. Barabara, CA

Syracuse University / BFA Special Studies

Sep 1993 - May 1996, Syracuse, NY

Awards

- 2011, UCSB Dean's Advancement Award
- 2010-11, Philip & Aida Siff Foundation Graduate Fellowship
- 2009-2010, UCSB Interdisciplinary Humanities Center pre-doctoral fellowship
- 2003-2005, National Science Foundation Fellowship in Interactive Media (IGERT)
- 2000-2003, Multiple grants from the Austrian Council for the Arts (Bundeskanzleramt)
- 1996, Clements Scholarship, Syracuse University
- 1993-1997, Syracuse University Merit Scholarship for Visual Art
- 1993-1997, Syracuse University Chancellor's Scholarship
- 1993-1997, Maryland Artist Equity Scholarship
- 1993, Maryland Governor's Citation for the Arts
- 1993, Maryland Scholastic Award

Teaching

Classes that I have designed/taught

- **Fall 2019, - present CU Boulder - CMDP 2100, History of Media Practices.**
This is a ~3 hour per week lecture class of 100+ students with 8 recitation groups. I portray a constellation of smaller abridged histories by media modality/type, each week covering a different set of practices.
- **Fall 2018, CU Boulder - ATLS 4519/5519: Studio: Space.**
In this studio class, we develop sonic and telephonic sculptures that point at low earth orbit satellites.
- **Spring 2012, University of San Francisco - ART 385: Interaction Design.**
This 15 week course introduces students with little to no programming experience to basic interactive prototyping with Processing and Arduino.
- **Fall 2010, UCSB - ART122: Liberate Your Computer! Make Art.**
This 10 week course teaches students how to use FLOSS (Free Libre Open Source Software) for media authoring. In it, we learn to install linux, set up servers, and make interactive web-based audio art.

Classes that I have assisted as TA:

- 2010, UCSB Film and Media Department - **FAMST 192, Film Theory.**
- 2007-2008, UCSB Film and Media Studies - **FAMST 46, Film Analysis.**
- 2007-2008, UCSB Art Department - **Digital Art Studio.**
- 2005, Media Art & Technology - UCSB - **Visual Design Through Algorithms**

Workshops:

- 2011, LabSurLab Festival - Medellín, Colombia
Workshop on audio-video streaming using only free software tools. Part of the LabSurLab festival at the Museo de Arte Moderno in Medellín, Colombia
- 2010, Isuma TV - Igloolik, Nunavut, Canada
Workshop on free software and video using FLOSS tools at [Isuma TV](#).
- 2009, Centro Nacional de las Artes - Mexico City, Mexico
3 day workshop on video production using free software video tools.
- 2003, Sibelius Academy - Helsinki, Finland
Artist Lecture and 3 day workshop on streaming media and software art.

Exhibitions

- 2015, *Wave Farm - Acra, NY*
10 day [residency at Wave Farm](#) culminating in a 2 hour live radio performance called **Hear Here**. I built a [web/phone application](#) that gives participants the ability to stream direct (via webrtc) to the broadcast in 2 second overlapping intervals.
- 2009, *ITT InterCommunication Center [ICC] Gallery A - Tokyo, Japan*
[Der Gedankenprojektor](#) (Thought Projector) - an installation based on an unrealised idea by Nokolai Tesla: a camera that can photograph thoughts. [Light InSight](#) Dec. 6, 2008 - Feb. 28, 2009. With alien productions.
- 2008, *Kunsthau Vienna, Austria*
[Der Gedankenprojektor](#) with alien productions.
- 2008, *Ars Electronica Festival, Landesgalerie - Linz, Austria*
[Der Gedankenprojektor](#) with alien productions.
- 2007, *Künstlerhaus Graz, Austria*
[Der Gedankenprojektor](#) with alien productions.
- 2007, *Radio Oltranzista - Amsterdam, The Netherlands*
daily performances from the street window at the [Melkweg](#) as part of the temporary FM radio station set up by Federico Bonelli.
- 2007, *Fishbon - Santa Barbara, CA*
This is not a presentation - an audio/video/text performance on the occasion of Baudrillard's death.

- **2007**, Píksel Festival - Bergen, Norway
KAOS - a short film sprint that was written, shot, and produced within a week using only free software. With Federico Bonelli.
- **2007**, ORF Kunstradio - Vienna, Austria
Live radio performance with [John Hopkins](#) on Austrian National Radio.
- **2005**, Aaniradio - Helsinki, Finland
A week long temporary radio art festival and FM broadcast organized by Sophea Lerner. My Userradio software was used as the main interface. I also performed a live radio-noise set at the M-bar.
- **2005**, LA Freewaves - Los Angeles, CA
Performance using live radio and television feeds with Marko Peljhan and Rx/Tx from Slovenia.
- **2004**, ORF Kunstradio - Santa Barbara, CA / Vienna, Austria
Channel Surfing - a performance for [ReInventing Radio](#), [Long Night of Radio Art](#) using radio input and custom software.
- **2004**, Píksel Festival Bergen, Norway
Performance with custom software using the raw data from windows and linux installation disks as audio.
- **2004**, Aim Space Gallery, Los Angeles, California
Group show including my *Propagandada* software that visualizes the word count from the LA and NY times as chernoff faces.
- **2003**, Dutch Electronic Arts Festival - Rotterdam, the Netherlands
networked audio performance with Norbert Math and Rupert Huber - [Interfacing / Radiotopia / KeyWorx](#)
- **2003**, Freud Museum St.Petersburg, Russia
The Hard Drive Orchestra - An installation and live noise performance consisting of 8 hard drives from the early 1990's and a control interface for "playing" the disks. With Markus Seidl (Fundamental Radio)
- **2003**, Sinnlos - Graz, Austria
Passpoint - a web intervention for the Sinnlos festival with Heimo Ranzenbacher.
- **2002**, FotoFluss Gallery, SchloßWolkersdorf, Austria
Simple World - an installation composed of 123 meters of black cat-5 network cable, one hub, two computers, two contact microphones, an amplifier and two loudspeakers. With Markus Seidl (Fundamental Radio)
- **2002**, Tasmanian Museum of Art - Hobart, Australia
10 day residency at Solar Circuit culminating in a live radio performance at the Tasmanian Museum of Art. With Markus Seidl (Fundamental Radio).
- **2001**, DomImBerg - Graz, Austria
48 - performance at the Network Community Congress festival with Markus Seidl (Fundamental Radio)
- **2001**, Vstream media festival - Linz, Austria
live television performance with Markus Seidl (Fundamental Radio)

- **2001**, Den Anden Opera, Copenhagen, Denmark
kopenhagen kanon, a networked audio-visual performance with Beliner Theorie
- **2000**, BerlinerSophtsaal - Berlin, Germany
Ain't that a shame, a networked audio-visual performance with Beliner Theorie
- **2000**, Polar Circuit - Rovaniemi, Finland
Sonnenübergang - Live radio every night under the midnight sun until 4am with Markus Seidl (Fundamental Radio)
- **2000**, Network Congestion Festival - Amsterdam, the Netherlands
Bier gegen inhalt (Beer for content) - live radio from the streets of Amsterdam outside of DeBalie. With Markus Seidl (Fundamental Radio)
- **1999**, ORF Kunstradio/Scwitradio - Vienna, Austria
Slowschwitt and country - a live audio/radio performance from the Ars Electronica Futurelab in honor of Kurt Schwitters. With Markus Seidl (Fundamental Radio)
- **1999**, Ars Electronica Museum - Linz, Austria
Face the Future - photo mural for the facade of the Ars Electronica Museum (with Joachim Schmetchka)
- **1999**, SynWorld - Vienna, Austria
Papermoon - a game level for the Unreal gaming environment. Part of the [Synworld](#) exhibit at T0 Public Netbase.
- **1998**, Kunst In der Stadt II - Linz/Bregenz, Austria
[Entry Point](#) - a terrestrial network sculpture
- **1997**, Kaufhaus Kastner & Öhler- Graz, Austria
[Embedded Systems](#) - a futuristic installation with reactive appliances at the top floor of the main shopping mall. With alien productions.
- **1997**, Radio Lada - Rimini, Italy
all that space and nowhere to go - a live radio performance with Markus Seidl. (Fundamental Radio)

Publications

- **Hear-Here: a choreographed peer-to-peer network for live participation on the radio**
In *Proceedings of the 12th International Audio Mostly Conference on Augmented and Participatory Sound and Music Experiences*, London, United Kingdom, 2017, ISBN: 978-1-4503-5373-1
- **UserRadio (2002)** In *Transmission Arts: Artists & Airwaves*, New York 2011, PAJ, ISBN 978-1-55554-151-4
- **An Anatomy of Radio** In *Re-Inventing Radio: Aspects of Radio as Art*, Frankfurt/Main 2008, Revolver, ISBN 978-3-86588-453-4
- **Blindsight is 20/20** In *Re-Inventing Radio: Aspects of Radio as Art*, Frankfurt/Main 2008, Revolver, ISBN 978-3-86588-453-4

- **Userradio** In *Proceedings of the 12th annual ACM international conference on Multimedia*, New York, NY, 2004, ACM, ISBN:1-58113-893-8
- [An online database for informing ecological network models: http://kelpforest.ucsc.edu](http://kelpforest.ucsc.edu) In *PLoS One*. 2014 Oct 24;9(10):e109356. doi: 10.1371/journal.pone.0109356. eCollection 2014.

Talks

- **2012**, Libre Graphics Unit, Bergen, Norway - Presentation of the Underweb software.
- **2012**, Linux Wochen Linz, Austria - Presentation of the Underweb software.
- **2011**, Píksel Festival Bergen, Norway - Presentation of the Underweb software.
- **2009**, Red de los Medios Libres - Mexico City, Mexico Lecture on free software and radio production.
- **2009**, Biblioteca Publica - San Miguel de Allende - Lecture on free software titled "Nerds & Politics".
- **2008**, Kyoto University of Art - Kyoto, Japan Artist Lecture with Alien Productions
- **2008**, Transmediale Berlin, Germany - Presentation of the film KAOS at the "Conspiracy" seminars of the 2008 Transmediale festival. Lecture on the relationship of free software and art.
- **2007**, Interdisciplinary Humanities Center - Santa Barbara, CA Lecture on radio art, sound sculptures, and radio by artists.
- **2006**, Fishbon - Santa Barbara, CA Lecture on free software.
- **2005**, Pixelache Festival - Helsinki, Finland Lecture on radio art tools; Userradio at the Kiasma Museum.
- **2004**, Píksel Festival Bergen, Norway UserRadio presentation
- **2003**, Sibelius Academy - Helsinki, Finland Artist Lecture on streaming media and software art.
- **2002**, Art University of Linz, Austria Lecture on radio by artist.
- **1997**, Akademie der Kunst - Vienna, Austria - Artist Lecture on my video work.