

Education

Bachelor of Journalism Degree, awarded with Distinction, 2013
University of Nebraska-Lincoln, Lincoln, NE

Professional Experience

Volum

January 2018-Present: Co-Director and Technologist

- Develop an open source field-ready volumetric video capture platform
- Create collaborative partnerships with organizations and projects that can leverage Volum's technology
- Supported by Journalism 360, Google News Initiative, Knight Foundation, and Online News Association

SecondMuse and Australia's Department of Foreign Affairs and Trade (DFAT) innovationXchange

August 2016-Present: Virtual reality, 360° video, producer, consultant, and senior advisor

- Co-produce, shoot, and edit 360° video stories in [Timor-Leste](#) and [Tanzania](#)
- Capture aerial 360° video footage with a drone
- Senior advisor for the [LAUNCH Legends](#) emerging technology nutrition curriculum for children in Tonga and Fiji
- Conduct 360° video trainings at DFAT and in the South Pacific region

Independent Storytelling and Emerging Media Technologist

June 2013-Present: Contractor and consultant for organizations, companies and governments

- Produce video, 360° video, 3D virtual reality content with drones and 360° cameras
- Drone flight instructor for drone journalism workshops
- Present on knowledge and experiences at conferences, symposiums, and universities globally
- Advise organizations and companies on how to leverage emerging technologies for communications

University of Nebraska-Lincoln Drone Journalism Lab

January 2012-Present: Researcher and Advisor

- Study journalistic implications for aerial drone technology as well as the legal, ethical and regulatory issues connected to the emerging field
- Research, build, and test aerial drones
- Co-wrote the Drone Journalism Lab Operations Manual based on field experience
- Travel internationally and work in the field with aerial drones
- Cross-disciplinary collaboration and fieldwork with archaeologists, filmmakers and photographers

Video work example: [2012 Nebraska Drought Story](#)

BuzzFeed

June 2015-August 2016: Beta Fellow for BuzzFeed's Open Lab for Journalism, Technology, and the Arts

- Hired to start and equip BuzzFeed's Open Lab research and development space
- Introduced 360° video to BuzzFeed by designing a low-cost 360° camera for [drones](#) and [tripods](#)
- Co-produced BuzzFeed's first 360° video and drone production which has over [6 million Facebook views](#)
- Co-produced and edited six [BuzzFeed 360° videos](#)
- Gave lessons to BuzzFeed reporters on how to produce 360° video
- Produced blog posts with open source tool instructions and files for others to use and learn from
- Created a [3D room-scale virtual reality experience](#) using photogrammetry and images captured by drone

African skyCAM, Nairobi, Kenya

March 2014-2015: Drone Consultant and Co-Producer

- Flew drones and worked with reporters in the field in Kenya and Tanzania
- Edited and produced drone journalism video content for [africanskycam.com](#) and CCTV Africa
- Wrote about drones and drone journalism for The Star newspaper (Kenya) and [africanskycam.com](#)
- Video work example: [Drone Safari Video Collaboration with CCTV Africa](#)

Short-Term Contracted, Consulting, and Other Projects

Antiochia ad Cragum Archaeological Research Project, Turkey

August 2014, 2015, and 2017: Drone Consultant and Digital Visualization Producer

- Fly camera equipped drone for aerial surveying purposes
- Produce high resolution aerial maps and [three-dimensional models](#) of excavation areas and structures
- Produce [HTC Vive room-scale 3D virtual reality experience](#) of the excavation

Poynter Institute

November 2016-Present: Instructor

- Teaching assistant and drone flight instructor for Poynter Drone Journalism School workshops
- Produced the Poynter [Immersive Storytelling with 360-Degree Video and 3D Virtual Reality](#) webinar

University of Southern California Annenberg School in Partnership with the Desert Sun Newspaper (USA Today)

February-May 2017: Drone and 360° video shooter

- Captured drone 360° video in Southern California for a [series of stories](#) about the Salton Sea

Chicago Jazz Philharmonic

September 2016: 360° video shooter

- Captured 360° video in Cuba for a story about young jazz musicians

Bushtracks Expeditions: Africa by Private Jet

August 2015: Wildlife Drone Videographer

- Filmed and produced aerial [safari video](#) shot in Botswana, Tanzania, Ethiopia, and Zambia

VICE News, Kenya

October 2014: Drone Consultant and Digital Visualization Producer

- Flew drones to film aerial video for a story about garbage pickers at Nairobi's 30 acre Dandora dumpsite
- Produced a high resolution aerial map and [three-dimensional model of the Dandora dumpsite](#)

African Wildlife Foundation (AWF), Kenya and Tanzania

July 2014-September 2014: Drone Consultant and Video Producer

- Flew camera equipped drones for filming wildlife and landscapes at AWF funded conservancies
- Edited and produced video content captured by drone

India From Above

September 2013-February 2014: Independent project

- Traveled and flew camera equipped drones at locations of interest in India
- Edited and produced video content captured by drone
- Captured aerial photography and videography of [Baroda Open soccer tournament](#) for the Times of India

Platte Basin Timelapse

June 2013-August 2013: Drone Consultant

- Flew camera equipped drones in the field in Colorado, Nebraska, and Wyoming
- Edited and produced video content captured by drone

Select Conference and Lecture Presentations

University Presentations

- Harvard - 2017 CGA Conference: The Drone Revolution in Spatial Analysis
- Yale - Information Society Project - Lecture
- Stanford - John S. Knight Fellows - Lecture
- NYU Tisch School of the Arts: Flying Robotic Journalism Class - Lecture, New York City
- Daystar University - Lecture, Nairobi
- United States International University Nairobi - Lecture
- Maharaja Sayajirao University of Baroda - Lecture, Vadodara, Gujarat, India
- Metropolitan Community College Photography Club - Lecture, Omaha, NE, USA

Conference Presentations

- 2017 NeoMediaLab International Meeting 2017 - Buenos Aires
- 2017 ASNE-APME-APPM News Leadership Conference - Washington DC
- USAID Innovation Week - Washington DC
- The Institute for the Future's 2017 Ten-Year Forecast Conference - San Francisco
- Digital Journalism World Summit 2017 - Conference, Singapore
- Nordic Data Journalism Conference 2017 - Denmark
- NxtMedia Conference 2016 - Norway
- Media Party Africa 2016 - Conference, Cape Town
- [Digital Innovators' Summit 2016 - Berlin](#)
- [Groundbreaking Journalism: At the Intersection of Man and Machine - Conference, Berlin](#)
- Hacks/Hackers Johannesburg - Presentation
- Hacks/Hackers Cape Town - Presentation
- Hacks/Hackers Nairobi - Presentation
- Hacks/Hackers San Francisco - Presentation
- 2016 Online News Association Conference - Denver
- 2015 Online News Association Conference - Los Angeles
- 2012 Online News Association Conference - San Francisco

Select Media Coverage and Interviews

[NPR - All Things Considered](#)

[Al Jazeera](#)

[Daily Mail](#)

[Huffington Post](#)

[SciDev.Net](#)

[U.S. News & World Report](#)

[NHK World](#) (Japanese Broadcasting Corporation)

[Poynter](#)

[Digiday](#)

[Washington Post](#)

[The Christian Science Monitor](#)