

Justin Booz

justinbooz.com

Education

2025 - present	Candidate, Doctor of Philosophy, Geomatic Engineering ETH Zurich, Department of Civil, Environmental and Geomatic Engineering, Zurich, Switzerland
2020 - 2021, 2022 - 2025	Dual Master of Landscape Architecture // Master of Design Studies: Mediums (computational design) Harvard University, Graduate School of Design, Cambridge, Massachusetts, USA <i>Distinction</i>
2016 - 2020	Bachelor of Arts, Architecture Columbia University in the City of New York, New York, NY, USA <i>magna cum laude</i>

Professional Experience

2025 - present	PhD Researcher , Planning Landscape and Urban Systems (PLUS), ETH Zurich ETH Zurich, Department of Civil, Environmental and Geomatic Engineering, Zurich, Switzerland
2021 - present	Research Assistant , Harvard University, Cambridge, MA: Office for Urbanization (Waldheim), Craig Douglas, Karen Lee Bar-Sinai AI development, sensor design and prototyping, simulations and modeling, drawings and renderings, archival research
2021 - 2025	Design Intern // Landscape Designer // Freelance Designer , Studio Zewde, New York, NY notable projects: Chalet Africain (CH), Dia: Beacon (USA), Bal Harbor Shops (USA), Miller Prize (USA), more available on request
2024 - 2025	Designer and Research Assistant , Responsive Environments and Artifacts Lab/NVIVIA, Cambridge, MA narrative development and drawings
2019 - 2020	Technical Intern , Mayor Bill De Blasio, Office of Environmental Remediation, New York, NY site analysis, documentation, research, social media
2016 - 2019	Graphic Designer , Columbia University, New York, NY: Office of Global Programs, Columbia College, Community Impact visual communications material, copywriting, editing, transcription
2013 - 2015	Advisory Board Member (appointed), Greenheart International, Chicago, IL pedagogical support for Camp Greenheart, urban agriculture networking, Oxfam guidance and collaboration
2012 - 2015	Co-Founder and Director (elected), The Cooperation Operation, Chicago, IL organization leadership, design, construction, fundraising, public relations, communications

Teaching

2025	Adjunct Faculty , University of Cincinnati, College of Design, Architecture, and Planning, Cincinnati, OH LAND7056 History of Landscape Architecture`
2025	Workshop Instructor , University of Cincinnati, College of Design, Architecture, and Planning, Cincinnati, OH Smart City Design with AI, Topic: Introduction to classifier models in python and ArcGIS
2021 - 2025	Teaching Assistant , Harvard University, Graduate School of Design, Cambridge, MA MLA Thesis (Waldheim); Atmospheric Encounters, LA Core II, and Rep II (Douglas); Digital Media Workshop (Dept. of LA)
2022 - Present	Visiting Design Review Critic Harvard University, Columbia University, Paris School of Architecture, Wentworth Institute of Technology

Research & Publications

2025 (Working)	<i>Artificial Intelligence and the Future of Landscape Pedagogy</i> , TAD Journal (with Kira Clingen, Sang Cho, Tom Sterling)
2025 (Working)	<i>Pyrotechnics: Implementation of Artificial Intelligence in the Design of Post-Disaster Landscapes</i> , ACADIA Journal of Architectural Computing
2025	<i>Sensing the Living City: A Scalable Platform for Monitoring the Electrophysiology of Urban Forests</i> , Journal of Digital Landscape Architecture
2025	<i>A Machine Learning Model to Identify Historic Wetlands in an Area of Critical Environmental Concern</i> , Journal of Digital Landscape Architecture
2023	<i>Claiborne Avenue Research</i> (New Orleans, LA), presented to the Emerson Collective
2019	<i>Urban Eco-Acoustics May Drive Passerine Speciation</i> , Department of Ecology, Evolution, and Environmental Biology (Columbia)
2019	<i>The Impact of Freshwater Runoff and Eutrophication in Tala Bay</i> , Gulf of Aqaba, Jordan, Department of Sustainable Development (Columbia)

Lectures & Exhibitions

2025	<i>Sensing the Living City: A Scalable Platform for Monitoring the Electrophysiology of Urban Forests</i> , JoDLA Conference, Dessau, Germany
2025	<i>A Machine Learning Model to Identify Historic Wetlands in an Area of Critical Environmental Concern</i> , JoDLA Conference, Dessau, Germany
2025	<i>Digital Tools and the Future of Landscape Architecture: Exploring New Frontiers</i> , Panel, International Federation of Landscape Architects
2025	<i>Landscape Architecture in the Age of Planetary Computation</i> , School of Planning Lecture Series, University of Cincinnati, Cincinnati, USA
2025	<i>Cool Forest</i> , collaboration with SCAPE, Venice Biennale 2025, Venice, Italy
2024	<i>Sensing the Living City: A Scalable Platform for Monitoring the Electrophysiology of Urban Forests</i> , Landscape Technology Forum, Harvard
2024	<i>Omnipresence: Machine Vision in the Adversarial City</i> , Solo exhibition and talk, Harvard University, Cambridge, MA
2022	Dia: Beacon Design Drawings (with Studio Zewde), Group Exhibition, Dia: Chelsea, New York, NY

Technical Abilities

Programming Languages	Python, C++, C#, R
Machine Learning/AI	Supervised, Semi-Supervised, Unsupervised, Reinforcement, Surrogate Modelling
Simulation	computational fluid dynamics, pyro
Physical Computing	Circuit Development, Prototyping, PCB manufacturing, Sensor Development, IoT, Networking
Graphic Design	Photoshop, Illustrator, InDesign
CAD/CAM	Rhino, AutoCAD, Revit, Blender
Rendering	V-Ray, Lumion, Twinmotion, Redshift, Enscape, Cycles
Special Effects	Blender, Cinema4D, Houdini, Red Giant, Maya
Game Engines	Unreal Engine, Unity
Video	AfterEffects, Premier
GIS	ArcGis Pro, CityEngine, Google Earth, ArcPy
Drone/UAV	Piloting, Programming, Photogrammetry, Gaussian Splatting, NeRFs
Physical Computing	Arduino, Raspberry Pi, Adafruit Feather
Environmental Analysis	Soils, Water, Topographic
Fabrication	Woodworking, Metalworking, 3D Printing, Laser Cutting, CNC, Soldering, Clay, Foam, Large-Format Printing

Languages

English	Native
French	Fluent, C1
German	Beginner, A1

Awards, Grants, Fellowships

2025	MDes: Mediums Domain Prize
2025	Norman T. Newton Prize, Department of Landscape Architecture
2024	Dean’s Scholar, Harvard University Graduate School of Design
2023	Penny White Project Fund Grantee, Harvard University Graduate School of Design
2020	Dean’s Scholar, Harvard University Graduate School of Design
2019	Columbia Global Scholar, Columbia University in the City of New York
2018	Beesen Global Research Fellow, Columbia University in the City of New York
2018	Center for French and Francophone Studies Fellow, Columbia University in the City of New York
2016	Full Merit Scholarship, Columbia University in the City of New York

Avocations & Hobbies

Since 2020	Cross-Country Running
Since 2010	Cycling
Since 2009	Mycology
Since 2008	Circuit Bending
Since 2006	Cooking
Since 2006	Gardening

Press

Cochran, Sam. 2024. “Tour an Out of This World Home in the Swiss Alps.” Architectural Digest. December 4, 2024. <https://www.architecturaldigest.com/gallery/tour-an-out-of-this-world-home-in-the-swiss-alps>.

Alexander, Tieg. “The Coop Op Transforms Toxic Waste Site into Community Garden.” Greenheart Transforms 1 January 2014: 1-2. Online.

Bellware, Kim. “Cooperation Operation Turns Former Toxic Waste Site Into Pullman Community Garden.” Huffington Post 19 August 2013: 1-2. Online.

Cynic, Aaron. “Coop Op Transforms a Vacant Lot in South Chicago.” The Christian Science Monitor. The Christian Science Monitor, 01 Nov. 2013. Web. 14 Dec. 2013.

Goldhammer, Zachary. “In Pullman, The Sunflower Also Rises.” Chicago Weekly 25 April 2013: 1-3. Online. Goldhammer’s article also appears on City Farmer News.

Jones, Sylvia L. “‘Coop Op’ Turns Pullman Eyesore into Community Asset.” ABC7 Chicago. ABC7 News, 30 Aug. 2014. <http://abc7chicago.com/society/coop-op-turns-pullman-eyesore-into-community-asset/288010/>

Maher, Sean. “BEST ECOLOGICAL ARK: Cooperation Operation” Southside Weekly 25 September 2013: Print.

Pfeifer, Jamison. “The Pullman Punk Ethic.” Chicago Weekly 1 March 2013: 1-2. Online.

Richardson, Whitney. “Chicago ‘Cooperation Operation’ to Transform South Side Lot into Creative Farm-scape.” Agrarian Trust 4 May 2013: 1-2. Online.article also appears on the Greenhorns website

Sánchez, Erika L. “Pullman Residents Turn Former Toxic Waste Site into Community Garden.” DNAinfo Chicago 19 August 2013: 1-3. Online.

Saunders, Luke. “Bumper Crop in Food Desert.” Grinnell Review 2 January 2014: 1. Online.

Vogel, Erin. “Cooperation Operation Fights Food Desert in South Side Neighborhood.” RedEye 22 July 2013: 1-3. Online. Vogel’s article also appears in The Sun Sentinel.