

PORTFOLIO

Design: <https://adelinechum.github.io/portfolio/>

Programming: <https://github.com/adelinechum>

EDUCATION

09/2019-05/2022 **Master of Architecture**
Columbia Graduate School of Architecture, Planning and Preservation

09/2012-08/2017 **Honours Bachelor of Architectural Studies Coop.**
Faculty of Engineering, University of Waterloo

09-12/2016 Rome Program, University of Waterloo

WORK

* Reference Letter available upon request

07/2022-Current **Center for Spatial Research (CSR), Columbia University - Assistant Director***
Initiating new project cross-discipline collaborations, designing, maintaining and programming CSR's website and project publications, leading graduate research assistants and coordination with collaborators in ongoing research projects, organizing and preparing workshops and grant related conference, providing spatial analysis, design and research tutorials, in addition to handling administrative tasks including grant management and budget reviews.

Current Ongoing Projects:

Atlas of Migration, Project Lead

Cities of Bail, Project Lead

Poultry Reform, Project Lead

Margins of Error, Project Manager

Methods in Critical Cartography and Spatial Research, Workshop Organizer & Project Lead

Forthcoming Book Publication on CSR's projects in Conflict Urbanism, 2025, co-author with Laura Kurgan

09/2024-12/2024 **GSAPP Columbia University - Adv V Studio Adjunct Assistant Professor**
Co-teaching, Reverse Logistics, an architectural design studio with Cyrus Penarroyo on the returns and recirculation of online goods and the critique of the existing digital infrastructures and reverse supply chain logistics.

01/2024-05/2024 **GSAPP Columbia University - Adv VI Studio Adjunct Assistant Professor**
Co-taught, Ceremony is Design, an architectural design studio with Chris Cornelius which focuses on the architectural identity in the Indigenous community of Round Rock, AZ.

07/2022-08/2022 **GSAPP Columbia University - Introduction to Architecture Adjunct Assistant Professor**
Led studio section in a five week course where students with varying backgrounds developed their design skills through a series of desk crits, reviews, lectures on model-making and architectural drawing, and the practice of architecture.

06/2021-05/2022 **Center for Spatial Research (CSR), Columbia University - Graduate Research Assistant**
Examined and designed data visualizations of forest fragmentation and its relation to land use and parcelization. Assisted in the design and data management of a series of web-based visualizations looking at SVI variables and its comparison to satellite imagery.

06-09/2021 **MODU Architecture - Cartographic Researcher and Data Visualization Designer**
Research and Mapping for Mini Towers project which looked at the irregularities, exemptions in NYC's zoning regulation to identify potential buildable areas, vertical slices of zoning to create an urban-network typically unseen from public view.

09/2020-05/2021 **GSAPP Columbia University - Architectural Drawing & Representation Graduate Teaching Assistant**
Advised first year MArch students on architectural design and techniques, participated in class discussion and critiques, led software and technique tutorials.

01/2020-08/2020 **Center for Spatial Research (CSR), Columbia University - Graduate Research Assistant**
Led workshops and design of CSR portfolio publication, participated in web design and visualization for Politics of Care: Community Health Care Worker Mapping in collaboration with Gregg Gonsalves, Yale University. Designed and developed a data visualization project, Flatten the Curve.

11/2017-08/2019 **Baird Sampson Neuert Architects - Architectural Designer ***
Coordinated projects from SD to CA on projects such as an Entry Pavilion, addition to a Visitor Centre in Cape Spear, upgrades to a Visitor Centre in Terra Nova for Park's Canada and interior building upgrades at Hart House, Schulich's Business School Expansion, and Strathcona Provincial Equestrian Facilities. Grant applications and design proposals for Allan Gardens expansion and masterplan.

01-05/2017 **Williamson Williamson Architects Inc - Architectural Intern ***
Participated in design process to production of detail construction documents for millwork and equipment. Built digital and physical presentation models for Pilot Cafe, Hoi-Bo shop and multi-generational housing.

- 01-07/2016 **Cook Robotham Architectural Bureau Studio - Architectural Assistant ***
Designed and prepared models, presentations and construction documents for a masterplan educational complex. Organized and designed *Floating Ideas* exhibition at the Royal Academy of Arts, London.
- 05-08/2015 **Atmos Studio - Architectural Intern**
Designed through iterative rhino/grasshopper models, managed client meetings and site visits, participated in team design meetings, prepared fabrication drawings, construction set-out drawings, and final presentation drawings.
- 09-12/2014 **Parkin Architects Limited - Assistant Architect**
Participated in design process, produced detailed models using Sketchup, presentation drawings in Revit and Autocad, schematic design drawings, presentation panels, CD drawings of hospitality projects.

EXHIBITION / EVENTS

- 2024 **Co-organizer of Methods, Tools and Practices in Spatial Research Workshop**
Organized a two-day workshop at the Brown Institute for Media Innovation, bringing together interdisciplinary speakers and participants. Facilitated project presentations, panel discussions, and interactive sessions addressing spatial inequality, conflict urbanism, counter-AI, cartography, and inclusive data visualization. Produced a digital publication featuring reflections, essays, and tutorials on critical methodologies in spatial research. This event was funded by the Mellon Foundation for the Center for Spatial Research.
- 2024 **Invited Participant, Atlas of Uncertainty Summit, University of the Witwatersrand Johannesburg**
Presented the Center for Spatial Research's ongoing mapping and data visualization project, Atlas of Migration, and participated in workshop discussions on methods of cartography, data analysis, and representation.
- 2023 **Invited Speaker, 'Data (Re)Makes the World Conference, Yale Law School**
Presented investigative project on 'Active Machine Learning of Aerial Imagery and the Undercounting-Underfunding Problem in North Carolina's Poultry Industry' in collaboration with James Clinton Francis and Guangyu Wu.
- 2020 **Invited Speaker, Health and the City, Fall 2020 Dean's Lecture Series, GSAPP**
Presented graduate research project on 'Flattening the Curve: Policies and Outcomes of Covid-19' under the guidance of CSR.
- 2019 **Student Lead for Carbon Footprint at the MoMa Energy Exhibit**
Led production and design of 'Embodied Energy of MoMa' at MoMa's Energy Exhibit under the direction of David Benjamin of The Living and Paola Antonelli of MoMa.
- 2019 **Building Equality in Architecture Toronto**
Participated in organization of the Third Annual Women in Architecture Seminar.
- 2014 **Stage and Props Coordinator for 'Muse'**
Design and Construction of sets and props for Iconography dramatic production.
- 2013 **ACADIA fabrication of group installation**
- 2012-2013 **Coordinator of 'Uncovered' Lecture Series, University of Waterloo**

HONOR / AWARDS

- 2022 **GSAPP Visualization Award**
School-wide award for Innovative use of computing media in architectural, urban research, design and fabrication.
- 2022 **William Kinne Fellow Travelling Prize**
Project Proposal for 'What it Takes to Grow Our Buildings: Consequences of Mass Timber Production on Forestry and Land Management in Sweden', with Aditi Shetye.
- 2022 **Avery 6 'Award'**
Student-nominated prize is awarded to the graduating M.Arch student whose work questions the standards of architecture and promises to change the profession.
- 2020 **Winner for Buell Centre Paris Prize, Core III Housing Studio**
The "Units of Care" housing design proposal, developed with Max Goldner, focused on rendering visible sites of maintenance and repair to strengthened existing community support networks and bridging the gap between efficiency and care in affordable housing.
- 2019 **Finalist for Buell Centre Paris Prize, Core I Studio**
- 2019-2022 **Design studio projects published in Abstract**
- 2016 **International Co-op Grant, University of Waterloo**
- 2016 **International Experience Award, University of Waterloo**
- 2013 **Nine square design featured at Design at Riverside Exhibition**
- 2012 **University of Waterloo Merit Scholarship**

TECHNICAL SKILLS

Programming

Python, HTML, CSS, Javascript, D3, Three.js, Processing

Design & 3d-modelling Software

Image and Design: Adobe Photoshop, Illustrator, Indesign, After Effects, Adobe XD, Adobe Premiere

Modeling: Rhino, Blender, Revit, AutoCad, 3DS Max, Vray, Grasshopper

GIS Software

QGIS, SQL & Python for GIS, ArcGIS Pro, Mapbox, Leaflet

Fabrication

Woodshop: bandsaw, table-saw, hand-tools, drill press

Metalshop: arc welding, bandsaw, grinder

Digital: Lasercutting, 3-axis CNC router/mill 3D-scanning, 3d-slicing softwares (Luban, Prusa), 3d-printing,

Prototyping: Raspberry Pi, PC / Server building

Print: B&W darkroom, professional document preparation for print