

# TATIANA ESTRINA

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## EDUCATION

- Sept 2021 - Jan 2025 **Massachusetts Institute of Technology | Cambridge, Massachusetts**  
**Master of Science in Computer Science and Electrical Engineering (MS EECS)**  
+ GPA: 4.8  
+ Thesis "Architecture as Prosthesis" with reader Stefanie Mueller (dual with MArch)  
+ *Relevant courses: Intelligent Multimodal User Interfaces, How to Make (Almost) Anything, Negotiation and Influence Skills for Technical Leaders, Interactive Data Visualization, Leading Creative Teams, AI in Society*
- Sept 2021 - Jan 2025 **Massachusetts Institute of Technology | Cambridge, Massachusetts**  
**Master of Architecture (MArch)**  
+ Graduate Fellowship and Stipend  
+ GPA: 4.8  
+ Graduate Teaching Certificate from Teaching and Learning Lab  
+ Thesis "Architecture as Prosthesis" with advisor Skylar Tibbits (dual with MS EECS)  
+ *Relevant courses: Core Design Studios, Option Studios, Shape Grammars, Creative Computing, Building Technology classes (Simulation, Structures), Furniture Design, Virtual Reality Pedagogies, Deep Time Seminar, Geodesign Seminar, Geometric Disciplines, Professional Practice, Biodesign*
- Sept 2016 - Apr 2021 **Toronto Metropolitan University (formerly Ryerson University) | Toronto, Ontario**  
**Bachelor of Architectural Science, Co-Op, with Distinction (BArchSci)**  
+ Dean's List: 2016-2017 + 2018-2019 + 2020-2021 (GPA of 3.5 or higher)  
+ Entrance Scholarship  
+ Academic work displayed in the annual Year End Show of exceptional work in 2017 + 2018 + 2019 + 2021  
+ GPA: 3.7  
+ *Relevant courses: Design + Integration Studios, Construction Documentation, Construction Detailing, Architectural History, Structures, Architectural Theory*

## PROFESSIONAL EMPLOYMENT

- Jan 2025 - Jun 2025 **Amazon | North Reading, Massachusetts | VR Communications Design Intern (Amazon Robotics)**  
+ Led design and prototyping of an AR interface augmentation of existing packing processes to improve speed and accuracy of associates  
+ Designed gamification approaches that added to the enjoyment of the work for the associates  
+ Developed wireframe mockups using Figma and Adobe Suite and produced functional prototypes for Magic Leap in Unity  
+ Conducted user research through site visits, virtual interviews, and data analysis to align designs with stakeholder needs
- Jun 2022 - Sept 2022 **Tesla | Fremont + Palo Alto, California | Architecture & Design Intern**  
+ Worked on design, visualization, and coordination for confidential design projects  
+ Presented iterations and design ideas to company leadership  
+ Developed and iterated through spatial design languages for upcoming company spaces

- Jun 2021 **PARTISANS | Toronto, Ontario | Architectural Designer (Summer Intensive)**  
 + Collaborated on a competition proposal for the Canadian court house extension  
 + Used AutoCAD, Illustrator, and Photoshop to produce presentation plans and elevations
- Sept 2019 - **PARTISANS | Toronto, Ontario | Architectural Designer (Co-Op)**  
 Aug 2020  
 + Collaborated on the design and modeling in Rhino and Grasshopper for schematic and final digital modeling  
 + Participated in client meetings, consultant meetings and construction site visits  
 + Used Revit to complete construction drawings and details and coordinated drawings with different consultants  
 + Generated scripts and Python code to optimize fabrication and reduce cost for the project by \$ 20,000  
 + Created standardized assets and instructional tutorials for the office about the use of Python in Grasshopper
- May 2019 - **Agathom Co. | Toronto, Ontario | Student Intern (Co-Op)**  
 Aug 2019  
 + Collaborated on the iterative schematic design of residential projects  
 + Fabricated iterative physical foam models  
 + Created visualizations for clients using Revit, Rhino, SketchUp, V-Ray and Photoshop
- May 2018 - **Strasman Architects | Toronto, Ontario | Student Intern**  
 Aug 2018  
 + Collaborated on the BIM model for transportation project using Revit  
 + Created presentation imagery using AutoCad, SketchUp and the Adobe Suite  
 + Modeled and rendered perspectives using 3Ds Max and Photoshop

## RESEARCH EXPERIENCE

- Jul 2024 - **Visiting Student in the HCI Lab | Cambridge, Massachusetts | MIT SA+P**  
 Sept 2024  
 + Collaborated on the HoloVians project where the palms of individuals are scanned with MR devices to reconstruct them in AR to model through the data collection and configuration and optimization of the software biometrics resulting in a journal article submission
- Jun 2023 - **Game Designer | Cambridge, Massachusetts | MIT Game Lab - STEP and the Education Arcade**  
 Aug 2023  
 + Designed game mechanics for educational information game  
 + Used Figma to develop user interfaces  
 + Conducted playtests with students and teachers
- Jun 2023 - **Research Assistant | Cambridge, Massachusetts | Design Earth**  
 Jul 2023  
 + Developed storyline and drawings for a narrative video for the Field Museum in Chicago
- May 2021 - **Research Assistant | Toronto, Ontario | Natural Sciences and Engineering Research Council of Canada**  
 Aug 2021  
 + Led research into mixed reality and its integration into the undergraduate curriculum  
 + Researched intersectionalities between architecture and video games  
 + Collaborated on the writing of two grant applications  
 + Created a 4D architectural video game to examine how games can aid students in their understanding of space
- Sept 2020 - **Research Assistant to Professor Terri Peters | Toronto, Ontario | Ryerson DAS**  
 May 2021  
 + Further developed a Grasshopper script for design of multi-unit residential buildings taking environmental factors into account  
 + Collaborated with supervisor on a paper about the new typology for solar design  
 + Implemented additional facets of environmental design into the workflow, including energy use and ventilation  
 + Examined and created guides for future students about emerging parametric software platforms

- Jun 2020 - May 2021 **Research Assistant to Professor Vincent Hui | Toronto, Ontario | Ryerson DAS**
- + Developed models and software comparisons for implementation of VR in architectural pedagogy
  - + Collaborated on the writing and presentation of several papers regarding digital architectural education
  - + Researched and collaborated on data collection of architecture within the video gaming environment in the context of both architectural pedagogy and historical reconstruction
- Jan 2020 - Jun 2020 **Research Assistant to Professor Terri Peters | Toronto, Ontario | Ryerson DAS**
- + Developed a Grasshopper script for design of multi-unit residential buildings taking environmental factors into account
  - + Analyzed the spatial daylight factor in high-rise multi-unit residential buildings in Toronto
- Sept 2018 - Apr 2019 **Research Assistant to Professor Vincent Hui | Toronto, Ontario | Ryerson DAS**
- + Developed instructional videos and workflows for virtual reality and digital fabrication software
  - + Created a design proposal for an enclosure for the viewing of VR of indigenous architecture in museums
  - + Aided supervisor with the imagery, interview transcription and general typesetting layouts for his book
  - + Participated in a comparison of VR generating software based on their applications in the pedagogical realm

## TEACHING EXPERIENCE

- Aug 2023 - Aug 2024 **Teaching Development Fellow | Cambridge, Massachusetts | MIT Teaching + Learning Lab**
- + Organized programming for TAs in the architecture department
  - + Developed workshop for TAs to aid them in providing inclusive and constructive feedback
- Feb 2024 - May 2024 **Teaching Assistant for 4.520/4.521: Visual Computing | Cambridge, Massachusetts | MIT SA+P**
- + Assisted with grading for assignments and feedback sessions for design projects
  - + Aided in the smooth delivery of the class content
- Sept 2023 - Dec 2023 **Teaching Assistant for 4.023: Architecture Design Studio I | Cambridge, Massachusetts | MIT SA+P**
- + Organized presentations and workshops to introduce students to software, including Illustrator, Rhino, and Photoshop
  - + Participated in desk critiques and final reviews, providing constructive feedback to students
  - + Created site models and drawings for student projects
  - + Provided redline feedback to student on their work
- Feb 2023 - May 2023 **Teaching Assistant for 4.021: How to Design | Cambridge, Massachusetts | MIT SA+P**
- + Organized presentations and workshops to introduce students to software, including Illustrator, Rhino, and Photoshop
  - + Participated in desk critiques and final reviews, providing constructive feedback to students
  - + Aided students in their project development
- Sept 2022 - Dec 2022 **Teaching Assistant for 4.500: Design Computation: Art/Object/Space | Cambridge, Massachusetts | MIT SA+P**
- + Guided students in their design and understanding of product design
  - + Organized presentations and workshops to introduce students to drawing, modeling, and fabrication
  - + Aided students with their learning in-class and in office hours
- Jan 2022 **Teaching Assistant for 4.02A: How to Design Intensive | Cambridge, Massachusetts | MIT SA+P**
- + Organized presentations and workshops to introduce students to software, including Illustrator, Rhino, and Photoshop
  - + Participated in desk critiques and final reviews, providing constructive feedback to students

## ACADEMIC EMPLOYMENT

- Feb 2022 - May 2022 **Social Media Facilitator | Cambridge, Massachusetts | MIT SA+P**
- + Maintained MIT Architecture's Facebook and Twitter accounts
  - + Provided support to set up and organization of lecture series

- Oct 2021-  
Dec 2022     **Admissions Mentor | Cambridge, Massachusetts | MIT SA+P**  
+ Provided constructive feedback on student's portfolios and application materials
- Feb 2022     **Portfolio Reviewer for AIAS Event | Virtual | Ryerson DAS**  
+ Provided constructive feedback on student's portfolios
- Nov 2021     **Panelist for Masters Abroad Event | Virtual | Ryerson DAS**  
+ Introduced students to the benefits and drawbacks of a masters degree abroad through a presentation and Q&A session
- Dec 2021     **Admissions Mentor | Cambridge, Massachusetts | MIT SA+P**  
+ Aided assigned students with their graduate school application
- Aug 2020 -  
Oct 2020     **Co-Op Peer Advisor | Toronto, Ontario | Ryerson DAS**  
+ Created a series of presentations in order guide lower-year students with the development of their portfolios  
+ Provided individual feedback for all of the students on their portfolios for Co-Op job applications
- Feb 2019     **Accreditation Assistant | Toronto, Ontario | Ryerson DAS**  
+ Complied program's assets and initiatives in order to respond to accreditation criteria  
+ Curated the newly added "program performance criteria" portion of the exhibit by collecting, creating and displaying posters
- Feb 2018     **Admissions Invigilator | Toronto, Ontario | Ryerson DAS**  
+ Organized and monitored perspective architecture students as they were assessed for admission

## ACADEMIC AWARDS

- Oct 2023     **Avalon Conference Award**  
Provides funding for students to travel and present at conferences, awarded to attend ACADIA 2023 Conference (\$600)
- Apr 2021     **Dennis Mock Leadership Award**  
Recognizes a graduating student who made outstanding voluntary extracurricular contributions to their school or academic program department, their faculty, or to Ryerson University as a whole.
- Apr 2021     **Innovation & Problem Solving Award**  
Recognizes a student university-wide whose new thinking and approaches have had a positive impact on their employer, team and /or broader community (\$100)
- Nov 2020     **Sepp Hannikainen Memorial Award**  
Highest achievement in construction management (\$1000)
- Nov 2020     **Minto Sustainability Award**  
High achievement in design incorporating sustainable practices (\$1000)
- Nov 2020     **Frank Leva Memorial Award**  
For image making for an outstanding final design (\$500)
- Nov 2020     **Fiberglas Canada Inc. Award**  
For achievements in academics and extra-curricular activities (\$957.28)
- Nov 2019     **Craig Race Model Award**  
Most creativity and best technique in physical model construction (\$1000)
- Nov 2018     **Norm Li Award**  
Highest performance in 3D architectural visualization (\$1500)
- Nov 2018     **CISC Ontario Region Award**  
Highest overall performance in steel design (\$3000)

Nov 2017 **Alumni Award**  
Highest overall performance in 1st year studio courses

## GRANTS

Apr 2022 **The Harold Horowitz (1951) Student Research Fund**  
To develop "The Polysapien" project (\$1000)

Mar 2022 **Council for the Arts at MIT Seed Grant**  
To develop "The Polysapien" project (\$500)

Jul 2020 **NFRF New Frontiers Grant**  
Written with Vincent Hui and Alvin Huang (\$4,000,000)

Oct 2020 **NSERC Discovery Grant**  
Written with Vincent Hui (\$250,000)

Jul 2021 **BEHER Grant**  
Written with Vincent Hui, Yahweh Wong, Lena Ma, Tapenga Paert (\$250,000)

Aug 2021 **NSERC Promo Science Grant**  
Written with Vincent Hui, Yahweh Wong, Lena Ma, Tapenga Paert (\$250,000)

## COMPETITION HONORS

Sep 2022 **Samsung x MIT Media Lab Project the Future Hackathon** | 1st Place, WJM Design Award *(\$3000 equivalent)*  
Awarded for "Feltmate" Prototype and Proposal

Aug 2021 **ACSA/AISC Steel Student Design Competition** | Honorable Mention, Category II: Open  
Awarded for "Marche du Pont" Project

Aug 2020 **ACSA/AISC Steel Student Design Competition** | 2nd Place, Category II: Open *(\$1500)*  
Awarded for "Hart Island Ossuary" Project

Aug 2019 **ACSA/AISC Steel Student Design Competition** | 2nd Place, Category I: Transportation Hub *(\$1500)*  
Awarded from "Trans-Pier" Project

Aug 2018 **ACSA/AISC Steel Student Design Competition** | 1st Place, Category II: Open *(\$2000)*  
Awarded from "Uproot" Project

Aug 2018 **Archasm Tokyo Anti - Library Competition** | Honourable Mention  
Awarded for "Library of Spaces" Project

Aug 2018 **CTBUH International Student Tall Buildings Design Competition** | Semi-Finalist *(Top 25)*  
Awarded for "Uproot" Project

Jun 2017 **CISC Student Steel Design Competition** | Award of Merit *(\$2000)*  
Awarded for "Pier 365" Project

## JOURNAL ARTICLES

Forthcoming **"Vein Biometric Recognition on Augmented Reality Goggles based on Self-Supervised Learning"**  
IEEE Transactions on Information Forensics and Security, Volume 18, 2024  
Co-Authored with R. Garcia-Martin, P.W. Haertel, M.D. Dogan, S. Mueller, R.S. Reillo

Sep 2022 **"Applications of Extended Reality Technologies within Design Pedagogy: A Case Study in Architectural Science"**  
International Journal of Digital Society (IJDS), Volume 12, Issue 2, 2021  
Co-Authored with V. Hui, A. Huang, G. Zhou

## BOOKS + BOOK CHAPTERS

- Jan 2025 **Routledge: "Videogames and Architecture: Intersecting Words"**  
Co-editor and chapter author  
Co-Edited with V. Hui, R. Scavnicky
- Dec 2021 **Infonomics Society: "Learning and Teaching Methodologies"**  
Chapter: Extended Realities to Extending Realities in Architectural Pedagogy  
Co-Authored with V. Hui, A. Huang, G. Zhou
- Dec 2019 **Routledge: "The Architecture Portfolio Guidebook" By Professor Vincent Hui**  
Projects Featured: "Uproot", "Trans-Pier", "OCAD U Design School", "Tripix"  
ISBN: 978-04-15-78704-8  
+ Assembled and generated imagery  
+ Wrote text in appendix  
+ Transcribed interviews  
+ Created typesetting and cover design

## CONFERENCE PROCEEDINGS PUBLICATIONS

- Oct 2023 **"The Yamal Conspiracy: A Geo-Engineered Fabulation"**  
*ACADIA 2023 Conference, Habits of the Anthropocene: Scarcity and Abundance in a Post-Material Economy*  
Field Notes presented in Denver, Colorado
- Jan 2023 **"Genesis of Ecologies in the Post-Anthropocene - A Non-Human Studio"**  
*Hawaii University Conference for Arts, Humanities, Sciences and Education*  
Co-Authored with V. Hui, L. Ma, A. Huang | ISSN: 2162-917X
- Sep 2021 **"Architecture of Monumentality: A Critical Analysis of In-Game Representations of Washington D.C."**  
*SPACE International Conference 2022 on Architectural Culture and Society*  
Co-Authored with V. Hui and Y.W. Wong | Paper presented virtually
- Sep 2021 **"A New Player has Entered the Game: Video Games in Architectural Education"**  
*eCAADe 2021: Towards a new, configurable architecture*  
Co-Authored with V. Hui and A. Huang | Paper presented virtually in Novi Sad
- Jul 2021 **"Analyzing Indigeneity in Academic and Architectural Frameworks"**  
*International Conference on Education and New Developments 2021*  
Co-Authored with G. Zhou, L. Werdina, V. Kinuthia, S. Gao, S. Twarog | Paper presented virtually
- Jul 2021 **"Transitioning Architectural Pedagogy into the Virtual Era using Digital Learning Methods"**  
*International Conference on Education and New Developments 2021*  
Co-Authored with V. Hui, A. Huang, K. Sarmiento | Paper presented virtually
- Jun 2021 **"Implementation of Virtual Reality into Design Pedagogy: A Case Study in Architectural Science"**  
*Canada International Conference on Education*  
Co-Authored with V. Hui, A. Huang, G. Zhou | Paper presented virtually in Mississauga, Canada
- Apr 2021 **"Zoom Off but Zoom In | The integration of video game technologies in architectural pedagogy in a physically distanced classroom"**  
*Architecture, Media, Politics Society: Teaching-Learning-Research: Teaching in a Time of Change*  
Co-Authored with V. Hui, A. Huang, S. Gao | Paper presented virtually in New York, USA

- Apr 2021 **"Multi-Objective Optimization in MUBS: Developing and Testing a New Design Workflow"**  
*simAUD*  
 Lead-Authored with T. Peters | Paper presented virtually
- Apr 2021 **"Pedagogical Potential of Video Games in Architectural Education "**  
*International Online Architectural Design Conference*  
 Co-Authored with V. Hui, A. Huang, L. Werdina | Paper to be presented virtually in Calgary, Canada
- Mar 2021 **"The Digital Design Build: Modes of Experiential Learning in the Pandemic Era"**  
*International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA 2021): Projections*  
 Lead-Authored with V. Hui and L. Ma | Paper presented virtually in Hong Kong
- Jan 2021 **"Extended Realities as Methods of Representation within Architectural Pedagogy"**  
*International Conference on Education of Social Sciences*  
 Lead-Authored with V. Hui
- Nov 2020 **"Revitalizing Architectural Studio Culture in a Digital Learning Era"**  
*Architecture, Media, Politics Society: Teaching-Learning-Research: Design and Environments*  
 Co-Authored with V. Hui and Alvin Huang | Paper presented virtually in Manchester, United Kingdom
- Nov 2020 **"Creative Connections: Maintaining studio culture in an age of physical separation"**  
*International Conference for Research, Education, and Innovation*  
 Co-Authored with V. Hui, A. Huang | ISBN: 978-84-09-24232-0, Paper presented virtually in Seville, Spain
- Nov 2020 **"Online Design Education: Uncovering the Pedagogical Digital Divide in the Pandemic Era"**  
*International Conference for Research, Education, and Innovation*  
 Co-Authored with V. Hui, A. Huang | ISBN: 978-84-09-24232-0, Paper presented virtually in Seville, Spain
- Oct 2020 **"Virtual Reality as a Response to Emergent Challenges in Architectural Education"**  
*International Conference on Advances in Education*  
 Co-Authored with V. Hui, A. Huang, S. Ağma | ISBN: 978-605-06286-0-9
- Jan 2020 **"Integrating Indigenous Archaeology into Contemporary Architectural Pedagogy"**  
*Hawaii University Conference for Arts, Humanities, Sciences and Education*  
 Co-Authored with V. Hui, G. Zhou, S. Lee | ISSN: 2162-917X, Paper presented in Honolulu, USA
- Jan 2020 **"Architectural Accessibility and Pedagogy Via Virtual Reality Integration"**  
*Hawaii University Conference for Arts, Humanities, Sciences and Education*  
 Co-Authored with V. Hui, G. Zhou, S. Lee, V. Kinuthia | ISSN: 2162-917X, Paper presented in Honolulu, USA
- Nov 2019 **"Integrating Indigenous Archaeology into Contemporary Architectural Pedagogy"**  
*International Conference for Research, Education, and Innovation*  
 Co-Authored with V. Hui, K. Sarmiento, S. Lee | ISBN: 978-84-09-14755-7
- Nov 2018 **"Experiential, Experimental and Entrepreneurial Pedagogy: Creating an Infrastructure for Safe Failure"**  
*International Conference for Research, Education, and Innovation*  
 Co-Authored with V. Hui, S. Mahbub, Y. Koroteyeva | ISBN: 978-84-09-05948-5, Paper presented in Seville

## CONFERENCE PRESENTATIONS + WORKSHOPS

- Mar-25 **Architecture and videogames: Intersecting Worlds**  
 HeadHi, NYC | Book Talk

- May 2021 **Augmented Historical Pedagogies: Tiergarten's Hidden Urban Narratives**  
Cambridge, USA + Berlin, Germany | MIT Student Involved in workshop
- Jun 2021 **Smart Geometry**  
Pittsburgh, USA | Contributor to the planning of the Mixed Reality Craftsmanship Cluster cancelled due to COVID-19 pandemic
- Jun 2021 **DigitalFutures**  
Virtual | Attendee of New Veils: Couture and Architecture
- Apr 2021 **Architecture, Media, Politics Society: Teaching-Learning-Research: Teaching in a Time of Change**  
New York, USA | Co-Presenter with A. Huang, S. Gao  
*"Zoom Off but Zoom In | The integration of video game technologies in architectural pedagogy in a physically distanced classroom"*
- Apr 2021 **simAUD**  
Online | Presenter  
*"Multi-Objective Optimization in MUBS: Developing and Testing a New Design Workflow"*
- Apr 2021 **Conference on Technology, Knowledge, and Society**  
Virtual in Melbourne, Australia | Co-Presenter with V. Hui and A. Huang  
*"Creative and Collaborative Quarantining"*
- Mar 2021 **International Conference of the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA 21): Projections**  
Virtual in Hong Kong | Co-Presenter with L.Ma, V.Hui + Attendee of Deep Design Workshop  
*"The Digital Design Build: Modes of Experiential Learning in the Pandemic Era"*
- Dec 2020 **Architecture, Media, Politics Society: Teaching-Learning-Research: Design and Environments**  
Manchester, London (Online) | Co-Presenter with A. Huang  
*"Revitalizing Architectural Studio Culture in a Digital Learning Era"*
- Nov 2020 **International Conference for Research, Education, and Innovation**  
Seville, Spain (Online) | Co-Presenter with A. Huang  
*"Online Design Education: Uncovering the Pedagogical Digital Divide in the Pandemic Era"*  
*"Creative Connections: Maintaining studio culture in an age of physical separation"*
- Oct 2020 **eCampus Ontario: Technology and Education Seminar and Showcase**  
Toronto, Canada | Co-Presenter with V. Hui  
*"Immersed and Engaged: The Pedagogical Value of Virtual Reality"*
- Oct 2020 **ACADIA: Distributed Proximities**  
Online | Attendee of conference + Generative Physics workshop
- Feb 2020 **Solemma Symposium**  
Los Angeles, USA | Attendee of conference + workshop
- Jan 2020 **Hawaii University Conference for Arts, Humanities, Sciences and Education**  
Honolulu, USA | Co-Presenter with V. Hui, G. Zhou, S. Lee, V. Kinuthia  
*"Architectural Accessibility and Pedagogy Via Virtual Reality Integration"*  
*"Integrating Indigenous Archaeology into Contemporary Architectural Pedagogy"*
- Oct 2019 **International Conference on Emerging Technologies in Architectural Design**  
Toronto, Canada | Attendee



Nov 2018 **International Conference for Research, Education, and Innovation**  
Seville, Spain | Co- Presenter with S. Mahbub, Y. Koroteyeva  
*"Experiential, Experimental and Entrepreneurial Pedagogy: Creating an Infrastructure for Safe Failure"*

## INSTALLATIONS + EXHIBITIONS

Upcoming **The Metamorphosis of the Polysapien | 77 Massachusetts Ave, Cambridge | Independent Exhibit**

Jan 2023 **Deep Time Project | MIT Wisner Gallery | Group Exhibit**  
+ Displayed the project "Language as Prosthesis" as a part of a group exhibition about deep time

Jan 2021 **DesignTO: "Distorted Projections" | 325 Church Street, Toronto | Independent Project**  
+ Developed a projection-based proposal in order to allow for a digital experiential installation amid the COVID-19 pandemic  
+ Learned new software and coding languages in order to develop interactive proposal  
+ Worked with volunteers to fabricate the physical components of the project

Jul 2019 **Archeology Alive Exhibit | Whitchurch-Stouffville Museum, Stouffville | Design Lead**  
*Awarded the Ontario Museum Association Award of Excellence in Exhibitions*  
+ Worked with the clients through meetings and site visits to develop the design of longhouse enclosure  
+ Researched traditional indigenous and modern construction methods and applied to project's design

Jan 2019 **Icebreakers: "Tripix" | HTO Park + Nathan Phillips Square, Toronto | Design Lead + Fabrication Lead**  
+ Developed a design proposal with a team of five students  
+ Created all parametric iterative digital models of designs  
+ Generated fabrication files using script written in Grasshopper based on as built conditions  
+ Assembled and fabricated final installation both in the dry run and on site

Apr 2018 **Grow Op: "Stratum" | Gladstone Hotel, Toronto | Project Lead**  
*Awarded the Grow-Op Seed Development Award (\$200)*  
+ Worked with a team to create a design proposal and revised proposal to make it feasible  
+ Worked out costing, materials and scheduling and Created test samples with different material choices  
+ Led a team of volunteers to fabricate project in timely fashion

Jun 2017 **Gem Bijou Store Expansion | Simone Place, Toronto | Design Team Member**  
*Design Selected for Construction (\$1000)*  
+ Worked with a team of three students to develop a proposal for the design of the expansion of a jewelry store  
+ Responsible for the design, 3D digital model, VR visualization and diagrams

Apr 2017 **Vision Conference Signage | Design + Fabrication Team Member**  
+ Worked with a team to design signage for the Vision Conference  
+ Used foam forming, laser cutting and painting to fabricate the signage installation

## MEDIA PUBLICATIONS

9/1/2022, 9/1/2023, **Imprint**  
Projects Featured: "The Hostile Caesar Salad", "Janus"

Apr 2022 **Thresholds 50: Before // After**  
Project Featured: "The Metamorphosis of the Polysapien" (as supporting imagery)

Nov 2021 **Architectural Record: "Vela by PARTISANS"**  
Project Featured: "Vela" (from professional internship)

- Aug 2021 **Toronto Architectural Guide: A Ryerson Coloring Book**  
Assembled imagery, typesetting, layout, generated graphics and sketches  
Sketches Featured: "Casa Loma", "Hockey Hall of Fame", "Old City Hall"
- Jan 2019 **Archdaily: "Ice Breakers Public Art Winter-Wonderland Returns to Toronto"**  
Project Featured: Icebreakers "Tripix" Installation
- Sep 2018 **Designlines: "A Ryerson Student Reimagines Abandoned Mines as Agricultural Hubs"**  
Project Featured: "Uproot"
- Apr 2018 **Toronto Life: "Look at the Eco Art taking over Gladstone"**  
Project Featured: Grow Op "Stratum" Installation
- 2018, 2019, 2020, 2021, 2022 **325 Magazine**  
Projects Featured: "Pier 365" + "Trekking Cabin" + "OCAD U Design School" + "Cave House" + "Hart Island Ossuary" + "A House for J.S. Bach"

## EXTRA-CURRICULAR INVOLVEMENT

- Jun 2023 - Jun 2025 **Ballroom Dance Team Executive Committee | MIT | *Costume Coordinator (appointed)***  
+ Organized the dress closet  
+ Coordinated the donations and purchases of new items  
+ Participated in monthly executive team meetings
- Apr 2023, Apr 2024 **MIT Open Ballroom Competition | MIT | *Booklet Designer (appointed)***  
+ Designed the cover and layout of the information booklet for the competition
- May 2018 - Apr 2019 **Architecture Society (arc.soc) | Ryerson DAS | *Projects Executive (elected)***  
+ Attended team meetings to decide on funding for projects  
+ Participated in the Extra-Curricular Committee Meetings to decide which projects would receive departmental resources
- Aug 2018 - Sept 2019 **Timber Fever Design Competition | Ryerson DAS | *Mentor and Special Guest Coordinator (appointed)***  
+ Contacted professionals and organized their participation in the event
- Feb 2017 - May 2019 **Year-End Show Committee | Ryerson DAS | *Exhibition Coordinator (appointed)***  
+ Compiled the projects selected for display  
+ Installed and organized the first year, second year and Extra-Curricular displays
- 2017 - 2019 **Architecture Course Union | Ryerson DAS | *Mentor (appointed)***  
+ Provided guidance to several lower year students with their projects and schooling as part of the mentorship program
- Oct 2019 **American Institute of Architecture Students | Ryerson DAS | *Tutorial Host (elected by committee)***  
+ Planned and led a series of tutorials instructing students on how to use Rhino

## LICENSES + CERTIFICATIONS

- 2017 - 2021 **LEED Green Associate**  
U.S. Green Building Council
- Jan 2025 **MIT Teaching Certificate**  
Completed Tracks: Subject Design, Lesson Planning Track, Inclusive Teaching Track, Microteaching Track

## SKILLS

### Computer Languages + Robotics

Python, Java, C#, C++, HTML, CSS, OpenFrameworks, JavaScript, GLSL, Arduino, Tableau

**UI/UX Design**

Figma, Adobe XD

**3D Modeling**

Rhino 3D 5.0/6.0/7.0/8.0, Grasshopper (with various plug-ins), SketchUp 2020

**Rendering**

3Ds Max 2021, V-Ray 2.0/3.0/4.0/5.0, Enscape, Corona Render, Lumion

**Drafting**

AutoCAD 2021, Revit 2021, Dynamo, Bluebeam

**Simulation**

Ladybug, Bumblebee, DIVA, ClimateStudio, Karamba3D

**VR / Gaming Engines**

Unity3D, Unreal Engine

**XR Devices**

Oculus Quest, HTC Vive, Microsoft Hololens, Magic Leap

**Motion Graphics**

Maya 2021, TouchDesigner, Processing

**Adobe Suite CC**

Photoshop, Illustrator, InDesign, Flash, After Effects, Premiere

**Microsoft Office Suite 2021**

Word, PowerPoint, Excel, OneNote, Outlook

**Digital Fabrication**

CNC Routing with RhinoCAM & MasterCAM, Laser-Cutting, 3D Printing

**Languages**

English (*Native*) , Russian (*Fluent*) , French (*Proficient*) , Spanish (*Beginner*)

**Interests**

Ballroom dance, VR/AR/MR, Architecture + Videogames, Ceramics, Dragon boat, Urban sketching