

CURRICULUM VITAE

Kristen Michelle Forward

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ACADEMIC PROFILE

Degrees

- 2018 - 2019 **Master of Environmental Design - MEdes**
University of Calgary, Calgary, AB; Thesis Degree, fully funded by Mitacs Accelerate
- 2015 - 2018 **Master of Architecture - MArch**
University of Calgary, Calgary, AB; Royal Canadian Architecture Institute of Canada
Honour Roll
- 2009 - 2013 **Bachelor of Commerce - BCom**
University of Victoria, Victoria, BC; Specialization in Finance

Studies Abroad

- 2017 **Master of Architecture Exchange**
University of Calgary's Tokyo Study Abroad
- 2012 **Bachelor of Commerce Exchange**
Universität Mannheim, Mannheim, Germany

Teaching Assistance

- Fall, 2018, Summer, 2019 **Robotic Fabrication** - School of Architecture, Planning and Landscape, University of Calgary

Special Topics

- July, 2018 **Programming I** - ABB Robotics, Brampton, ON
- Sept, 2014 - May, 2015 **Graphic Design I & II** - Alberta College of Art and Design, Calgary, AB
- July - Aug, 2015 **3D Fabrication and Metal Casting** - University of Calgary, Calgary, AB

PROFESSIONAL

- June, 2020 - Present **Firmwide Design Computation Leader and Computational Designer** - NBBJ, Columbus, OH
Co-leading NBBJ's Design Computation team; Increasing the digital capabilities of the firm and Columbus studio through training, recruiting, and team development; Advocating for sustainability on projects and initiatives through presentations and performance tool training; Developing computational tools for design performance; automation, analysis, and interoperability
- July, 2018 - April 2019 **Mitacs Accelerate Scholar Intern (Part-time)**- Dialog Design, Calgary, AB
Conducted research into sustainable solutions for Dialog projects while developing computational skills and expertise in areas relating to my thesis; co-developed an internal course on Circular Design
- May, 2016 - Nov, 2019 **Research Assistant** - The Laboratory for Integrative Design (LID), Calgary, AB
Co-designed small-scale community projects; helped facilitate annual Grasshopper workshops for new hires, developed concepts and diagrams for competition proposals; coordinated fabrication and outsourced labour
- May - Aug, 2017 **Architectural Research Intern** - Dialog Design, Calgary, AB
Provided design development support for weekly client meetings; restructured project research into a comprehensive document that featured commonalities between Dialog Projects and projects in the Laboratory for Integrative Design

AWARDS

- Nov, 2019 **SAPL Conference and Event Travel Award** - SAPL Awards Committee
- Aug, 2019 **ACADIA 2019 Student Scholarship Award** - Association for Computer Aided Design in Architecture
- June, 2018 **RAIC (Royal Architectural Institute of Canada) Student Medal** - RAIC Architecture Canada
- July, 2018 **Mitacs Accelerate Graduate Research Internship Program** - Alberta and National External Awards
- May, 2018 **Queen Elizabeth II (Master's) Scholarship** - Queen Elizabeth Scholarship
- July, 2017 **Excellence in Comprehensive Design** - GEC Awards
- May, 2017 **Murray W. Waterman Study Abroad Award** - EVDS Program Awards
- May, 2017 **Cohos Evamy Travel Scholarship** - Cohos Evamy Partners
- May, 2016 **Norman Fleming Award** - Alberta Association of Architects
- Feb, 2016 **AGSS (Alberta Graduate Student Scholarship)** - ALIS Scholarships & Bursaries
- Aug 2013 **President's Scholarship** - University of Victoria Awards

EXHIBITIONS & INSTALLATIONS

- Sept, 2019 **Circularity in Digital Design**
City Building Design Lab, Calgary, AB
- Aug, 2018 **Designing Out Waste**
University of Calgary Downtown Campus and SAPL Kasian Gallery, Calgary, AB
- 2017 - 2018 **Furbaniture Community Project**
Various locations around Calgary, AB
- 2016 **Sukkah No. 5: Subject to Change**
Beth Tzedec Congregation, Calgary, AB

PUBLICATIONS

- 2019 Jensen, K. G., Taron, J., Forward, K., & Pattullo, H. (2019). *Designing Out Waste: A Brief on Robotic Refabrication* (1st ed.). Calgary. <https://gxn.3xn.com/project/designing-out-waste-publication>
- 2019 Forward, K., Taron, J. (2019). Waste Ornament: Augmenting the Visual Potency of Sustainable Facade Designs. *ACADIA 2019: Ubiquity and Autonomy*, 90-98.
- 2020 Gardner, Guy & Forward, Kristen & Tse, Kim & Sharma, Karan. (2020). Rapid Composite Formwork: An Automated and Customizable Process for Freeform Concrete Through Computational Design and Robotic Fabrication. *Digital Concrete 2020*

INVITED LECTURES & PRESENTATIONS

- Jan, 2019 **"Designing Out Waste"** - EVDS Research Conference, University of Calgary
- Feb, 2019 **"Circular Design in Architecture"** - Building Science II, University of Calgary
- May, 2019 **"Sustainability 2.0: Circular Design"** - Dialog Design, Calgary, AB
- Sept, 2019 **"Contemporary Ornament for Circularity"** - CBD Lab, Circularity in Digital Design Exhibition, Calgary, AB
- Oct, 2019 **"Waste Ornament"** - ACADIA Conference, Austin, TX
- Jan, 2020 **"Circularity and Automation in Architecture"** - HDR Architects, Vancouver, BC

INVITED REVIEWS & CRITIQUES

School of Architecture, Planning and Landscape, University of Calgary

2018	Joshua Taron, Foundation Architecture Studio I - Mid Review
2018	Guy Gardner, Robotic Fabrication - Mid and Final Reviews
2019	Joshua Taron, Senior Research Architecture Studio VI - Mid and Final Reviews
2019	Mauricio Soto Rubio, Architecture Studio II - Mid Review
2019	Guy Gardner, Robotic Fabrication - Mid and Final Reviews
2019	Yves Poitras, Architecture Studio III - Mid and Final Reviews
2020	Jason Johnson, Senior Research Architecture Studio VI - Final Review
2020	Matthew Parker, Senior Research Architecture Studio VI - Final Review
2020	Guy Gardner, Introduction to Computational Design - Final Reviews
2020	Seyi Arole, Architecture Studio III - Mid Review
2020	Joshua Taron, Architecture Studio III - Final Review
2020	Guy Gardner, Robotic Fabrication - Final Review
2021	Sumer Singh, Senior Research Architecture Studio VI - Final Review

TECHNICAL PROFICIENCY

2015	AutoCAD Level 1 & 2 - Southern Alberta Institute of Technology, Calgary, AB
2015	Revit Essentials - Southern Alberta Institute of Technology, Calgary, AB
2014	Adobe Creative Suite - Alberta College of Art and Design, Calgary, AB

2D Graphics/Video	3D Modeling	Rendering	Automation	Performance
InDesign	Rhino 3D	Mental Ray	Grasshopper	DIVA
Illustrator	Maya 3D	VRay	C#	Climate Studio
Photoshop	Revit	Thea	Robot Studio	Cove.Tool
AutoCAD	ZBrush	Keyshot	ABB TPU	Ladybug
After Effects	Mudbox	Lumion	RoboDK	Honeybee
Premiere Pro	Blender			
Digital Fabrication	ABB IRB 2600 6 Axis Arm, Universal Robots IR10e, 3D Printing (Plastic, Plaster, Clay), 5 Axis CNC, Laser Cutter Universal			
Traditional	DSLR/SLR Photography, Painting, Sculpture, Wheelthrowing, Perspective Drawing, Wood and Metal Shop Equipment, Casting (Concrete, Plaster, Resin, Bronze)			

REFERENCES

Nate Holland - Director of Innovation at NBBJ, Seattle, WA
nholland@nbbj.com

Joshua Taron - Associate Professor & Associate Dean (Research & Int'l), School of Architecture, Planning and Landscape, University of Calgary, Calgary AB

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Jason Johnson - Associate Dean of Architecture, School of Architecture, Planning and Landscape, University of Calgary, Calgary AB

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