

DR. CODY A. PAIGE

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Languages: (Fluent) English, French ◇ (Basic) Spanish, German

ASSISTANT PROFESSOR, MECHANICAL ENGINEERING

Columbia University

January 2026 – present

Founding faculty member of Columbia's new Aerospace Engineering program, developing research in vision systems, virtual reality, and digital twins for the Lunar surface, mission planning and operations, and materials for advanced space-suits. Advising students in lab and field-based development and testing of technologies to enable human exploration of the Moon and Mars. Building an interdisciplinary research pipeline from concept through mission deployment in collaboration with NASA and commercial space partners. Co-lead on three payloads aboard the IM-2 Lunar mission (March 2025), which achieved the southernmost lunar landing in history.

EDUCATION

Massachusetts Institute of Technology

2019 – 2023

Doctor of Philosophy, Aeronautics & Astronautics

Research focused on enabling a permanent human presence on the Moon through two parallel streams: development of a wearable radiation shielding material for advanced spacesuits, and development of a virtual reality platform for geological surface exploration of the Moon and Mars. Also led hardware development and concept of operations testing for a commercial off-the-shelf RGB and depth camera (RESOURCE) payload, which launched aboard the IM-2 CLPS mission in February 2025 and landed on the Lunar south pole in March 2025 – the southernmost landing in lunar history.

Dalhousie University

2015 – April 2026

Master of Science, Earth Sciences

Development of a cosmogenic ^{14}C extraction line for the calculation of erosion rates in Panamint Valley, California. Included design, assembly and testing of ultra-high vacuum equipment, geological field work and chemical preparation of samples.

University of Toronto, Institute for Aerospace Studies

2010 – 2012

Master of Applied Science, Aerospace Engineering

Study of multidisciplinary optimization of aircraft focusing on the development of a discrete coupled-adjoint aerodynamic solver for the Laminar Navier-Stokes equation for automated aircraft design.

Queen's University, Kingston, Canada

2004 – 2008

Bachelor of Applied Science, Engineering Physics

Studies ranged from topics in quantum mechanics, nuclear engineering and semiconductor physics to computer aided design, electronics and physics laboratories and automatic controls. Social sciences courses were also taken including economics, professional engineering skills, and German language studies. An honours thesis was written on the causes of motion-sickness in flight simulators.

PUBLICATIONS AND SCHOLARLY WORKS

· Peer-Reviewed Publications

1. Paige, C., Haddad, D.D., Ward, F., Cook, A., Jha, V., Deutsch, A.N., Shimada, J., Colaprete, A., Heldmann, J., Ekblaw, A., and Newman, D. Development and Testing of the Concept of Operations for a Low-Cost RGB and Depth-Camera for a Lunar South Polar Mission. *Nature Microgravity*, in preparation.

2. Haddad, D. D., Paige, C., Ekblaw, A., Paradiso, J. A., Newman, D. J., Cook, A. M., Deutsch, A. N., Heldmann, J., Colaprete, A. 2026. RGB–NIR Reflectance and 3D Microtopography for Lunar Regolith Analysis Using Time-of-Flight Imaging Systems. *IEEE Aerospace Conference (AeroConf)*, in press.
3. Kwon, C., Ataman, B., Wang, Y., Ortiz, S., Paige, C., Hoffman, J., Tibbits, S. 2026. HAVEN: Hazard-Response Aero-Deployable Vehicle for Emergency Nominal Re-entry. *IEEE Aerospace Conference (AeroConf)*, in press.
4. Bensch, L., Paige, C., Haddad, D.D., Liu, F., Perry, N., Olivier, G., Todd, J. and Paradiso, J.A., 2025. Creating Immersive Digital Twins of Terrestrial Planetary Analogs With Multimodal Sensing and Game Engines for Virtual Exploration. *IEEE Pervasive Computing*, 24(4), pp.85–97.
5. MacRobbie, M., Chen, V.Z., Paige, C., Otuya, D., Stankovic, A. and Tearney, G., 2025. Evaluating the Suitability of Perfusion-Based PD Probes for Use in Altered Gravity Environments. *Biosensors*, 15(8), p.478.
6. Haddad, D.D., Deutsch, A.N., Colaprete, A., Cook, A.M., Paige, C., Perry, E. and Heldmann, J., 2025. Measuring Reflectance and Maturity of Lunar Regolith and Permafrost Simulants Using Visible-Near Infrared Wavelengths. *LPI Contributions*, 3090, p.2679.
7. McKinney, L., Patel, P.B., Massimino, D., Thomas, A., Salazar, J., Klimenka, M., Lordos, G., Paige, C., Tibbits, S. and Newman, D., 2025, March. Moon briccss: Moon blocks using regolith ISRU for corbelled construction of sustainable shielding. In *2025 IEEE Aerospace Conference* (pp. 1–15). IEEE.
8. Sumini, V., Paige, C., Nilsson, T., Paradiso, J., Rossi, M., Bensch, L., Özvanligil, A., Gemici, D., Newman, D., Trotti, G. and Cowley, A., 2025. Design as an Astronaut: An XR/VR Experience of the Argonaut Habitat Unit. In *Advancing Human-Computer Interaction for Space Exploration SpaceCHI 2025* (pp. 9–1). Schloss Dagstuhl–Leibniz-Zentrum für Informatik.
9. Paige, C.A., Haddad, D.D., Piercy, T., Todd, J.E., Ward, F., Ekblaw, A., and Newman, D. Development and user study of the Operational Geology in a Virtual Environment (OGIVE) platform. *Acta Astronautica*, Vol. 224, pp. 17–36 (2024).
10. Haddad, D.D., Paige, C., Ward, F., Paradiso, J.A., Newman, D., Ekblaw, A., Cook, A. and Heldmann, J., 2024, March. Azure Kinect à La Luna (AKALL): Leveraging Low-Cost RGB and Depth-Camera in Lunar Exploration. In *2024 IEEE Aerospace Conference* (pp. 1–9). IEEE.
11. Cook, A.M., Paige, C., Haddad, D.D., Ekblaw, A., Auffinger, S., Heldmann, J., Ward, F.S., Rademacher, A., White, B., Shimada, J. and Colaprete, A., 2024. Moon3D: A Depth-Mapping Camera for Lunar Environmental and Geophysical Studies. *LPI Contributions*, 3074, p.5007.
12. Liu, F., Paige, C., Ekblaw, A. and Paradiso, J.A., 2024. HexSense: Self-Oriented Ballistic Deployed Wireless Sensor Nodes for Lunar Exploration. In *AIAA AVIATION FORUM AND ASCEND 2024* (p. 4865).
13. Paige, C., Ward, F., Haddad, D.D., MacNeil, J., McGaffigan, P., Ekblaw, A. and Newman, D., 2023. MIT Zero-G outreach initiative: Using experiment design and virtual reality to inspire the next generation of space scientists and engineers. *Acta Astronautica*, 212, pp.152–159.
14. Ward, F., Paige, C., Haddad, D.D., Todd, J., Heldmann, J., Lim, D., Ekblaw, A. and Newman, D., 2023, July. Multi-sensor 3D data visualization in virtual reality for planetary science and mission operations. *2023 International Conference on Environmental Systems*.
15. Paige, C., Haddad, D.D., Ward, F., Todd, J., Osinski, G.R., Ekblaw, A. and Newman, D., 2023, July. Data collection in Svalbard, Norway to test the use of virtual reality for Lunar and planetary surface exploration. *2023 International Conference on Environmental Systems*.
16. Paige, C.A., 2023. *Enabling a permanent human presence beyond low Earth orbit: wearable radiation protection and enhanced science through virtual reality*. Doctoral dissertation, Massachusetts Institute of Technology.
17. Paige, C., Haddad, D.D., Ward, F., Piercy, T., Todd, J., Paradiso, J., and Newman, D., 2023. Operational Geology In a Virtual Environment (OGIVE) Novel Approaches to Virtualizing Geological Expeditions for Planetary

Exploration. *In SpaceCHI 2023*.

18. Haddad, D.D., Unterhauser, S., Paige, C., Brokaw, B., Ward, F., Paradiso, J., and Newman, D., 2023. Leveraging Docker Containers for Azure Kinect Integration in Space Robotics: An Overview of the Azure Kinect a La Luna (AKALL) Framework. *In SpaceCHI 2023*.
19. Forsey-Smerek, A., Paige, C., Ward, F., Haddad, D.D., Sanneman, L., Todd, J., Heldmann, J., Lim, D. and Newman, D., 2022, March. Assessment of depth data acquisition methods for virtual reality mission operations support tools. *In 2022 IEEE Aerospace Conference (AERO)* (pp. 1–14). IEEE.
20. Paige, C., Ward, F., Haddad, D.D., Todd, J., and Newman, D., 2022. Assessing Virtual Reality for Remote Lunar Geological Fieldwork. *In Lunar Surface Science Workshop*.
21. Apodaca Moreno, M.R., Paige, C.A., Stober, J., Rupasinghe, D., Wood, D. and Newman, D., 2022. Capturing the Moon: 3D Mapping and Regolith Collection for Low-Cost Lunar Rover Missions. *In ASCEND 2022* (p. 4285).
22. Tessemer, L., Goldstein, G., Herrer-Arcos, G., Korolovych, V., Bellisle, R., Paige, C., Shallal, C., Sahasrabudhe, A., Herr, H., Boriskina, S.V., Newman, D., and Tibbits, S., 2022. 3D Knit Spacesuit Sleeve with Multifunctional Fibers and Tunable Compression. *In Acadia 2022*.
23. Paige, C.A., Haddad, D.D., Ward, F., Piercy, T., Heldmann, J.L., Lim, D.S.S., Colaprete, A., Cook, A.M., Elphic, R.C. and Newman, D., 2021, July. Lunar instrument data integration into the Virtual Reality Mission Simulation System for Decision Communication and Situational Awareness. *In 50th International Conference on Environmental Systems* (No. ICES-2021-227).
24. Paige, C., Ward, F., Piercy, T., and Newman, D., 2021, May. A virtual reality mission simulation system for lunar rover missions. *In SpaceCHI 2021*.
25. Paige, C.A., Forsey-Smerek, A., Haddad, D.D., Ward, F., Piercy, T., Heldmann, J., Lim, D., Colaprete, A., Cook, A. and Newman, D., 2021. A virtual reality platform for lunar rover missions to reduce decision-making time and improve situational awareness. *In ASCEND 2021* (p. 4203).
26. Paige, C., Newman, D. and Peter, J., 2020, July. Advanced thermal, radiation, and dust protection for spacesuits and space systems. *2020 International Conference on Environmental Systems*.
27. Paige, C., Newman, D. and Lombardo, S.J., 2020, March. An integrated innovative 3D radiation protection fabric for advanced spacesuits and systems. *In 2020 IEEE Aerospace Conference* (pp. 1–11). IEEE.
28. Paige, C.A., 2020. Designing the Smallest Manned Spacecraft: David Clark Company and the Evolution of the Space Suit. *In AIAA Scitech 2020 Forum* (p. 1360).
29. Lyu, Z., Kenway, G.K., Paige, C. and Martins, J.R., 2013. Automatic differentiation adjoint of the Reynolds-averaged Navier-Stokes equations with a turbulence model. *In 21st AIAA Computational Fluid Dynamics Conference* (p. 2581).
30. Paige, C., 2013. Extension of the ADjoint Approach to a Laminar Navier-Stokes Solver. Master's thesis, University of Toronto.

· Book Chapters

1. National Geographic Society and Cengage. *Physical Science Textbook*, (Ch. 7), in preparation. 2026 anticipated.
2. Dava Newman. Space and Biomedical Engineer. *Radiation*, (Ch. 10), in preparation. 2026 anticipated.

· Patents

1. Newman, D.J., Tibbits, S., Herr, H.M., Boriskina, S., Tessmer, L., Korolovych, V., Sahasrabudhe, A., Goldstein, G., Arcos, J.G.H., Bellisle, R. and Paige, C., 2024. *3D knit spacesuit sleeve with multifunctional fibers and tunable compression*. U.S. Patent Application 18/452,752.

· Peer-Reviewed Abstracts and Conference Posters

1. Bensch, L., Connolly, R., Rathnasabapathy, M., Paige, C., De Bonet, L. and Newman, D. Expanding Earth Mission Control Through Immersive 3D Visualization of Sea Level Rise and Planetary Analogs Using Earth Observation and Real-World Terrain Data. *AGU 2025*.
2. Paige, C., Olivier, G., Cherner, P., Alexopoulos, I., Coblenz, M., Clay, R. and Aubert, J., 2024, December. *Testing 3D mapping techniques for Lunar lava tube reconstruction in Lanzarote, Spain*. In AGU Fall Meeting Abstracts (Vol. 2024, pp. P42B-08).
3. Gosse, J., McDonald, E., Hidy, A., Paige, C.A., Kirby, E. and Pederson, J., 2024. *Coarse Alluvium Cosmogenic Chronometry*. In Geological Society of America Abstracts (Vol. 56, p. 403218).
4. Paige, C., Haddad, D.D., Ward, F., Deutsch, A., Jha, V., Bickel, V., Colaprete, A., Cook, A., Heldmann, J. and Newman, D., 2023. *Development of the Concept of Operations for depth-data collection on the Lunar Surface*. (No. EGU23-10549). Copernicus Meetings.
5. Paige, C., Gosse, J., and MacLellan, L., 2023. Automated induction heating of quartz for in situ cosmogenic ^{14}C measurements. *GAC-MAC 2023, Sudbury, ON, Canada*.
6. Paige, C., Gosse, J., and Wilson, J., 2022. Applications of cosmogenic ^{14}C for the new ^{14}C extraction line laboratory at Dalhousie University. *GAC-MAC 2022, Halifax, NS, Canada*.
7. Jha, V., Garrett, M., White, B., Shimada, J., Cook, A., Colaprete, A., Heldmann, J., Dave, A., Paige, C., Ward, F. and Auffinger, S., 2022, December. Ruggedizing a commercial depth camera for novel lunar exploration. In *AGU Fall Meeting Abstracts* (Vol. 2022, pp. P55E-1617).
8. Paige, C., Ward, F., Haddad, D.D., Forsey-Smerek, A., Sanneman, L., Todd, J., Colaprete, A., Lim, D., Heldmann, J. and Newman, D., 2021, December. Towards the development of 3D lunar surface depth-data collection for geology in virtual reality. In *AGU Fall Meeting Abstracts* (Vol. 2021, pp. P41C-01).
9. Paige, C., Gosse, J., Wilson, J., Kiesler, L. and Lupker, M., 2021, November. Automated induction heating of quartz for in situ cosmogenic ^{14}C measurements. In *15th International Conference on Accelerator Mass Spectrometry*. Program and abstracts (No. INIS-AU-0116, pp. 287–287).
10. Paige, C., Gosse, J., Wacker, L., Kirby, E., McDonald, E., Margreth, A. and Lifton, N., 2021. Combined soils and in situ [^{14}C] approach to evaluate erosion of non-lithified landforms. *Atlantic Geology*, 57, pp.127–128.
11. Paige, C., and Newman, D., 2019, June. A multi-layer hydrogen rich boron nitride nanotube textile for EVA radiation shielding. *Poster in the 48th International Conference on Environmental Systems*.
12. Paige, C., Gosse, J., Kirby, E., McDonald, E., Wacker, L., Lifton, N., and Margreth, A., 2021. Combined soils and in situ C-14 approach to evaluate erosion of non-lithified landforms. In *AGU Fall Meeting Conference Abstracts*.
13. Paige, C., Gosse, J., Margreth, A. and Wacker, L., 2018, April. Development of a cosmogenic ^{14}C extraction line at Dalhousie University. In *EGU General Assembly Conference Abstracts* (p. 11489).
14. Paige, C.A., Gosse, J.C., Taylor, K., Margreth, A., Wacker, L. and Lifton, N., 2018. Canada's first in situ ^{14}C extraction line is ready for action. In *Atlantic Geology, Atlantic Geoscience Society Abstracts – 44th Colloquium and Annual General Meeting 2018*, Volume 54.
15. Paige, C.A., Gosse, J.C., Taylor, K. and Margreth, A., 2017. Progress on the low-background cosmogenic C-14 extraction line at Dalhousie University, Halifax, Nova Scotia, Canada. In *Atlantic Geology, Atlantic Geoscience Society Abstracts – 43rd Colloquium and Annual General Meeting 2017*, Volume 53.

16. Paige, C., Gosse, J., Taylor, K., Margreth, A., Kirby, E., and McDonald, E., 2017, May. An in-situ cosmogenic ^{14}C erosion-rate method to improve the reliability of exposure dating strain markers, Panamint Valley, California. *In CGU General Meeting Abstracts*.
17. Paige, C.A., 2016. A UHV extraction line for in-situ produced cosmogenic C to improve the reliability of dating strain markers. *Poster in Atlantic Geology, Atlantic Geoscience Society Abstracts – 42nd Colloquium and Annual General Meeting 2016*, Volume 52. *Awarded Best Poster*.

· Websites

1. Columbia University Faculty Website: Cody Paige
2. MIT Space Exploration Initiative Former Director: Cody Paige
3. MIT Lunar Mission website
4. MIT Lunar Mission: interactive website
5. Capturing the Moon: Lunar lava tubes in Lanzarote – research overview and video
6. National Geographic Explorer: Cody Paige
7. Capturing the Moon in Svalbard – research overview and video
8. Capturing the Moon in Antarctica – research overview
9. How to Make Almost Anything: Cody Paige

INVITED SPEAKING ENGAGEMENTS

1. UK Science and Technology Network: Space Innovation, Keynote speaker, Cambridge, MA, Sept. 11, 2025. *Capturing the Moon and Beyond: Digital Twins for Space Exploration*.
2. MIT Media Lab Beyond the Moon conference, host and moderator, Cambridge, MA, April 24, 2025.
3. MIT AeroAstro SpaceTech, panelist, Cambridge, MA, April 23, 2025. *Return to the Moon*.
4. Boston University Center for Space Physics, invited lecturer, Boston, MA, Feb. 27, 2025. *Space Exploration: MIT Space Exploration Initiative*.
5. National Geographic and Lindblad Expeditions, Antarctic Cruise lecturer, Antarctica, Nov. 16, 2024. *Space Exploration: Using Virtual Reality to Become Interplanetary*.
6. National Geographic Closer Look, invited lecturer, Washington, DC, Aug. 27, 2024. *Space Exploration: Using Virtual Reality to Become Interplanetary*.
7. Massachusetts Space Week, featured talk, Cambridge, MA, April 25, 2024. *NASA ISS: Destination Station*.
8. The Great Courses, The Future of Space Exploration Education Series, featured scientist, Cambridge, MA, 2024. *Episode 2 – To Boldly Go Again: Back to the Moon*.
9. Convergence Art Festival, panelist, Taiwan, June 8, 2024. *Convergence – Artistic Exploration from Nature to Society*.
10. Young President's Organization, Keynote speaker, Los Angeles, CA, Feb. 8, 2024. *Building for the Moon*.
11. Price Waterhouse Cooper Tech Exchange, invited speaker, Santa Barbara, CA, March 7, 2024. *Becoming Interplanetary*.
12. MIT Media Lab Beyond the Cradle conference, host and moderator, Cambridge, MA, March 15, 2023.

13. MIT Media Lab Beyond the Cradle conference, panelist, Cambridge, MA, March 15, 2023. *Earth and Space: Connecting Worlds*.
14. Dalhousie University Dawson Geology Club, departmental guest lecture, Halifax, NS, Canada, Oct. 25, 2017. *Two weeks on the red planet: a Mars analogue simulation*.

HONOURS AND AWARDS

National Geographic Visiting Scientist – Antarctica	2024
National Geographic Explorer Grant	2024
RESOURCE Research Engineer – SSERVI and NASA funding	2024
RESOURCE project Research Assistantship – SSERVI and NASA	2021 – 2023
Zonta International Amelia Earhart Fellowship	2020
Solar System Exploration Research Virtual Institute NASA Ames Field School Grant	2019
Fulbright Foreign Student Scholarship	2019
Geological Society of America Research Grant	2017
Shell Enhanced Learning Fund Award	2016
Atlantic Geoscience Society Graham Williams Award for Best Graduate Student Poster	2016
Nova Scotia Graduate Scholarship	2015 – 2017
Undergraduate Student Research Award, NSERC of Canada	2007
Dean's List Scholarship	2006 – 2008

ACADEMIC EXPERIENCE

- Director of the Space Exploration Initiative** 2023 – 2025
MIT Media Lab Cambridge, MA
- Led aerospace-related research across science, engineering, art, and design for a team of 50+ students, faculty and staff. Coordinated an annually recurring cadence of space flight opportunities including parabolic flights, suborbital launches, and ISS missions. Managed direct staff and led fundraising, strategic partnerships, and collaborations across MIT and with commercial space industry partners. Oversaw and facilitated 20+ active research projects. Managed the IM-2 Lunar mission payloads (RESOURCE depth camera, AstroAnt rover, HUMANS nanowafer) through development, testing, launch, and landing in March 2025.
- Lecturer** 2024 – present
Space Architecture (MAS.S66 / 16.89 / 4.154) Cambridge, MA
- Co-taught in Spring 2024, preparing for Spring 2025. MIT piloted a new undertaking in interdisciplinary design for space habitats. This Space Architecture design studio brought together students from across MIT to imagine, design, prototype and test the future of Space Architecture, run in parallel with Architecture, Aero/Astro Space Systems Engineering and the Space Exploration Initiative.
- Lecturer** 2023 – present
Prototyping our Sci-Fi Space Future: Designing and Deploying Projects for Zero Gravity Flights (MAS.838 / 16.88) Cambridge, MA
- Lead instructor for the SEI-offered course on project development, prototyping, and deployment readiness for parabolic flights, culminating with an annually chartered research flight.
- Student Mentor** 2020 – 2021
Blue Origin Payload Competition, MIT Cambridge, MA
- Payload development student advisor for the MIT Portugal Nanolab Student Payload Competition in collaboration with Blue Origin. Geological payload assessing regolith aggregation in microgravity – 2021 launch.

Teaching Assistant, Human Systems Engineering*MIT*

2020

Cambridge, MA

- Assisted in content development, student mentoring and grading.
- Lecturer.

Teaching Assistant, Aerospace Engineering Lab*University of Toronto*

2012

Toronto, Canada

- Taught labs and assisted students in completing experiments.
- Graded experiment reports.

FIELD EXPERIENCE

Columbia University Human Space Lab Antarctic Expedition*Columbia University*

January 2026

Antarctica

- Collection of 3D imagery alongside ambient noise tomography, digital acoustic sensing and a Lunar drill to create a comprehensive 3D map of structures beneath glaciers and frozen surfaces.
- 3D visualization of Lunar drill tailings for the identification of water-ice.

MIT Media Lab Space Exploration Initiative Field Expedition*MIT*

November 2024

Antarctica

- Collection of data for the development of a VR platform for exploration of frozen planetary surfaces and ISRU exploration.
- Virtual environments to be used in Earth Mission Control – a climate data visualization tool created as part of Future Worlds at the MIT Media Lab.
- Travel funding provided by National Geographic Explorer Grant.

MIT Media Lab Space Exploration Initiative Field Expedition*MIT*

February 2024

Lanzarote, Spain

- Collection of data for the development of a VR platform for Lunar lava tube exploration.
- Collaboration with Space Fleet Technology to create a surface and subsurface 3D map of one of the world's longest lava tubes.
- Travel funding provided by National Geographic Explorer Grant.

MIT Media Lab Space Exploration Initiative Field Expedition*MIT*

October 2022

Svalbard, Norway

- Collection of data for the development of a VR platform for planetary surface exploration and assessment of the concept of operations of Lunar surface VR data collection.
- Training included extreme environment preparedness, polar bear safety, and Research in Svalbard application process.

Planetary Surfaces Field School*University of Western Ontario*

May 2022

Utah and Arizona, USA

- Interdisciplinary field studies with an emphasis on comparative planetology through the study of the geology and biology of Moon/Mars analogue sites in the deserts of northern Arizona and southern Utah.
- Received full funding from the SSERVI and NASA Ames field school grant.

Analogue Astronaut*Space Generation Advisory Council*

August 2017

Poznan, Poland

- Testing of the Lunares Research Station analogue facility in Poland. Simulated one week on the Moon and one week on Mars (including time lag).

- Mission geologist and integral team member of a 30+ person operations team.
- Capsule communicator (CAPCOM) training: radio communication, team coordination and experiment management.
- Simulation supervisor: coordination of simulation procedures and design of simulated emergencies.
- Training included aerodynamic wind tunnel training, special forces organized ground survival training, and Helicopter Underwater Escape Training (HUET).

Geological Field Work

Dalhousie University

January 2016
Panamint Valley, CA

- Sample collection and field site analysis.

Geological Field School

Dalhousie University

May 2015
Nevada and California, USA

- One-month field school in the Nevada and California deserts.
- Conducted daily traverses of up to 20 km in extreme temperature conditions while performing geological assessments of the terrain.

Scuba Diving Certification

SDI

2023
Somerville, MA

- Completed Scuba Certification with Scuba Divers International (SDI) at United Divers in Somerville, MA, with Open Water Dives completed in Cape Cod.

Private Pilot License

Multiple

2012 – 2016
Canada

- Ground school at Toronto Airways; completed flight training at Cargair Montreal and Truro Flight Club.

LEADERSHIP AND OUTREACH

Physical Science Textbook

National Geographic Learning

2025
Cambridge, USA

- Featured Explorer.
- Development of related Explorer content and video content.

MIT Zero-G Outreach Initiative

MIT Space Exploration Initiative

2021 – 2024
Cambridge, USA

- Developer and Lead.
- Grade 7 students in the Cambridge Public School system design and build an experiment that is flown on a parabolic flight.
- [YouTube – Educational Content](#)
- [YouTube – Parabolic Flight recording in VR video](#)

MIT Cambridge Public School Outreach

MIT

2019 & 2021
Cambridge, USA

- Space Storyboard and video for lesson plan for Grade 2.
- [YouTube – Ask MIT](#)

Women in Science and Engineering (WISE)

WISE Atlantic

2017 – 2021
Halifax, Canada

- WISEAtlantic Virtual Girls Camp Role Model (July 2020, July 2021)
- WISEAtlantic – Women of Science career booklet (featured) (June 2018)

- WISEAtlantic and UNESCO round table discussion – Non-linear career paths (March 2018)
- WISEAtlantic Skilled Futures for Girls Conference – panelist (March 2017, April 2017)

Leadership Training

2003 – 2012

- Ben Zander Leadership Development Seminar (March 2012)
- University of Toronto Leadership Course for Engineers (2011)
- Orientation Week Student Leader (2005)
- Minister of Leadership Development, Ontario Secondary School Students Association (2003 – 2004)

MEDIA

1. Documentary: *Drive Me to the Moon* (C. Paige featured). Produced by Castrol for Lunar Outpost, premiered January 14, 2026.
2. Columbia Engineering News: *Aerospace Expands at Columbia*. October 27, 2025.
3. National Geographic Society Space Week – featured post.
4. SpaceNews: *How IM-2 payload operators made the most of the mission's landing issues*. Written by Jeff Foust, May 15, 2025.
5. MIT News: *Luna: A moon on Earth*. Written by Adelaide Zollinger, April 24, 2025.
6. MIT News: *MIT engineers prepare to send three payloads to the moon*. Written by Jennifer Chu, February 25, 2025.
7. Billionaire Magazine: *Defying Gravity*. Written by Pamela Peeters, December 2, 2024.
8. MIT News: *Designing for outer space*. Written by Maria Iacobo, June 23, 2024.

INDUSTRY EXPERIENCE

Project Engineer

2013 – 2015

Bombardier Aerospace

Montreal, Canada

- Project Engineer for the Global 7000/8000 Interiors group as the focal for the development of the seats and divans, interior finishes, camera and security system.
- Analysed and reported critical information to leadership teams.
- Acted as group lead interacting with cross-functional engineering departments and multiple suppliers to expedite drawings, deliverables and specifications, keeping all functions on task per the program schedule.
- Developed multiple tracking tools used both internally and by suppliers.
- Planned and coordinated briefings, workshops and on-site product evaluations to help achieve major program milestones.

COOP EXPERIENCE

Assistant to the Member of Parliament

2008

Government of Canada

Willowdale, Canada

- Provided constituents with immigration, visa and citizenship counsel and support by contacting Canadian Embassies within Canada and in foreign countries, and assisting with documentation.
- Organized and created a functional and interactive database of all previous cases.
- Aided with campaign databasing (volunteers, donors, etc.) for federal election within the riding.

Research Assistant

2007

University of Toronto Institute for Aerospace Studies

Toronto, Canada

- Assisted in vacuum and temperature testing of completed nano-satellite (pre-launch).
- Aided in document review and evaluation of test procedures.
- Tested battery cells for incomplete satellite.
- Funded by the Natural Sciences and Engineering Research Council of Canada's Undergraduate Student Research Award.

Student Engineer

2006

Contract Pharmaceuticals Limited

Mississauga, Canada

- Assisted in the design and implementation of multiple continuous improvement projects.
- Researched and completed a time and process flow chart of company operations.
- Created a budget forecast and timeline schedule.

Student Engineer

2006

Magna Unimotion Gear

Aurora, Canada

- Managed customer and supplier relations; sourced materials and components with vendors and provided liaison with customers.
- Conceived, researched, developed and presented a Six Sigma improvement idea to engineering staff and management.
- Quality tested new prototype parts and customer components.