

Education

- **Doctor of Philosophy** (Built Environment) (2027), College of Design and Engineering, National University of Singapore (NUS)
- **Master of Science** (Environmental Design and Engineering) (2023), The Bartlett Faculty of the Built Environment, University College London (UCL)
- **Bachelor of Science** (Sustainability and the Built Environment) (2021), College of Design, Construction and Planning, University of Florida (UF)
 - Minors: Economics; Agricultural and Natural Resource Ethics & Policy
 - Graduated with *summa cum laude* honors

Relevant Doctorate Student Coursework (Course Credits)

1. LA5303: Urban Greening: Technologies and Techniques (4)
2. BPS5226: Smart Buildings and Facilities (4)
3. BPS5225: Building Energy Audit and Performance Measurement and Verification (4)

Relevant Masters Student Coursework (Course Credits)

4. BENV0047: Systems Thinking and System Dynamics (15)
5. BENV0035: Advanced Building Simulation (15)
6. BENV0032: Methods of Environmental Analysis (15)
7. BENV0031: Efficient Building Services Systems (15)
8. BENV0029: Natural and Mechanical Ventilation in Buildings (15)
9. BENV0028: Building Solar Design (15)
10. BENV0027: Health, Comfort, and Wellbeing in the Built Environment (15)
11. BENV0002: Dissertation: Environmental Design and Engineering (60)
12. BENV0001: The Built Environment: The Energy Context (15)

Relevant Bachelors Student Coursework (Course Credits)

1. BCN4594: Building Energy Modeling (3)
2. DCP4290: Capstone Project in Sustainability and the Built Environment (6)
3. AEB4283: International Development Policy (3)
4. DCP4214: Green Building Strategies (LEED Lab) (6)
5. AEB4126: Agricultural & Natural Resource Ethics (3)
6. GEO3502: Economic Geography (3)
7. GEO3372: Conservation of Resources (3)
8. ECP3302: Environmental Economics & Policy (4)
9. DCP3220: Social & Cultural Sustainability of the Built Environment (3)
10. DCP3210: Sustainable Solutions of the Built Environment (3)
11. DCP3200: Methods of Inquiry for Sustainability and the Built Environment (3)
12. ALS3133: Agricultural & Environmental Quality (3)
13. MAS3114: Computational Linear Algebra (3)
14. ECO3101: Intermediate Microeconomics (4)
15. GEO2500: Global & Regional Economies (3)
16. AEB2451: Economics of Resource Use (3)
17. MAC2312: Analytical Geometry & Calculus II (4)

Publications and Manuscripts: Major Project Reports (2)

1. Gilbride, T.L., Louie, E., and **Aucremanne, C.J.** 2022. "Getting from Net Zero to Zero Carbon One Step at a Time." In *5th International Conference on Building Energy and Environment (COBEE 2022)*. PNNL-SA-171611.
2. **Aucremanne, C.J.** and Knowles, III, H.S. 2021. "Sunset or Sunrise? Framing the Science and Policy of Rooftop Solar PV in Florida." In *UF/IFAS Electronic Data Information Source (EDIS)*.

Lectures, Speeches, or Posters Presented at Professional Events (33)

1. Gilbride, T.L., Louie, E., and **Aucremanne, C.J.** 07/25/2022. "Getting from Net Zero to Zero Carbon One Step at a Time." Presented by E. Louie at 5th International Conference on Building Energy and Environment, Montreal, Canada. PNNL-SA-175327.
2. Gilbride, T.L., Brozyna, K., Mosley, T., **Aucremanne, C.J.**, and Benitez, L. 09/14/2021-09/16/2021. "Zero Energy Ready on a Production Scale." Presented by Gilbride, T.L., Brozyna, K., Mosley, T. at EEBA High Performance Home Summit, Denver, Colorado. PNNL-SA-166513.
3. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: BPC Green Builders, Hillside Passive House." Denver, Colorado. PNNL-SA-166172.
4. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Bundle Design Center, Midcentury Deep Energy Makeover." Denver, Colorado. PNNL-SA-166173.
5. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Bundle Design Center, Felicity." Denver, Colorado. PNNL-SA-166174.
6. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: C & B Custom Homes, Cabernet Model 2021." Denver, Colorado. PNNL-SA-166175.
7. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Charis Homes, The Royal Magnolia." Denver, Colorado. PNNL-SA-166176.
8. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Clifton View Homes, Above-Garage Accessory Dwelling Unit." Denver, Colorado. PNNL-SA-166177.
9. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Deltec & Old School Remodeling, Custom Ridgeline F." Denver, Colorado. PNNL-SA-166178.
10. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Dwell Development, Wallingford Single-Family Positive Energy Home." Denver, Colorado. PNNL-SA-166179.
11. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Energy Vision Homes, Wilton Net Positive Home." Denver, Colorado. PNNL-SA-166180.
12. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Garbett Construction, Aurora Heights." Denver, Colorado. PNNL-SA-166181.

13. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Garbett Construction, Skyscape at Silver Creek Village." Denver, Colorado. PNNL-SA-166182.
14. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Habitat for Humanity South Sarasota County, The Venetian at Eldron." Denver, Colorado. PNNL-SA-166183.
15. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Haynes Construction, Crown Street." Denver, Colorado. PNNL-SA-166184.
16. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Healthy Communities, Pathway to Decarbonization." Denver, Colorado. PNNL-SA-166185.
17. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Insight Homes, The Brenner." Denver, Colorado. PNNL-SA-166186.
18. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Lopez Community Land Trust, Salish Way Cottages." Denver, Colorado. PNNL-SA-166187.
19. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Mandalay Homes, Foothills Lot 8." Denver, Colorado. PNNL-SA-166188.
20. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Martha Rose Construction, Abbott's Alley Net Zero." Denver, Colorado. PNNL-SA-166189.
21. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: McStain Neighborhoods, McStain Neighborhoods." Denver, Colorado. PNNL-SA-166190.
22. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Module, Show Home on Black Street." Denver, Colorado. PNNL-SA-166191.
23. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Philgreen Construction, L'Avenir Townhomes." Denver, Colorado. PNNL-SA-166192.
24. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Red Tree Builders, Robinhood." Denver, Colorado. PNNL-SA-166193.
25. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: S. D. Jessup Construction, DeepWell Property." Denver, Colorado. PNNL-SA-166194.
26. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Targa Homes, Crown Hill Detached Accessory Dwelling Unit." Denver, Colorado. PNNL-SA-166195.
27. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: TC Legend Homes, Neohouse." Denver, Colorado. PNNL-SA-166196.

28. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Thrive Home Builders, The Vitality Collection." Denver, Colorado. PNNL-SA-166197.
29. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Tim O'Brien Homes, The Galway." Denver, Colorado. PNNL-SA-166198.
30. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: United Way of Long Island, Housing for Heroes." Denver, Colorado. PNNL-SA-166199.
31. Gilbride, T.L. and **Aucremanne, C.J.** 09/14/2021-09/16/2021. "DOE Zero Energy Ready Home Housing Innovation Award Winner Poster 2021: Zero Net Now, Zero Energy at Albany Post." Denver, Colorado. PNNL-SA-166200.
32. **Aucremanne, C.J.** 08/19/2021. "DOE's Zero Energy Ready Home Program: A Path to Net-Zero." Online Conference, United States. PNNL-SA-165897.
33. **Aucremanne, C.J.** 08/19/2021. "DOE's Zero Energy Ready Home Program: A Path to Net-Zero." Abstract submitted to 2021 PNNL Virtual Student Research Symposium, Online Conference, United States. PNNL-SA-165623.

Creative Works or Activities: Web-Based Communication and Teaching (2)

1. Barometer Florida.
 - a. **Aucremanne, C.J.** (Mentor): Quantitative and qualitative research of North Central Florida.
 - b. Purpose: a continuation of the Barometer Florida visualization project related to public health issues and health indicators, such as the opioid epidemic, COVID-19 pandemic response, sexual health, and more.
 - c. Duration: December 2020 – May 2021
 - d. Funding: Knight Foundation
 - e. URL: <https://bobgrahamcenter.ufl.edu/barometer-florida/>
2. Barometer Florida.
 - a. **Aucremanne, C.J.** (Scholar): Quantitative and qualitative research of Okeechobee County.
 - b. Purpose: an i-civics tool aimed at creating local, regional, and statewide benchmarks on vital climate issues facing Florida, allowing users to track progress on key indicators over time.
 - c. Duration: December 2019 – May 2020
 - d. Funding: Knight Foundation.
 - e. URL: <https://bobgrahamcenter.ufl.edu/barometer-florida/>

Professional Experience (1)

- **PhD Research Engineer**
NUS College of Design and Engineering, Singapore. 01/2023 – present.
 - Lab: Asst Prof Ali Ghahramani's Building Robotics Laboratory.
 - Grant project: 'Improving Building Energy Efficiency and Occupant Comfort Via Intelligent and Human-Centered Systems'.

Internship Experience (3)

- **Masters Intern – Building Energy Efficiency**

Pacific Northwest National Laboratory, Richland, WA. 11/2022 – 12/2022.

- Mentor: Theresa Gilbride of the Building America Solution Center.
- Hosting Manager: Cheryn Metzger of the Technology Integration Group within the Energy and Environment Directorate.
- Collaborated between the Pacific Northwest National Laboratory (PNNL) and the U.S. Environmental Protection Agency (EPA) to edit and update the Building America Solution Center (BASC) with WaterSense v2.0 information from v1.0.
 - Included 4 required guides, 18 best-practice guides, 6 images for implementation, and 6 references for further information.

- **Department of Energy (DOE) SULI Intern**

Pacific Northwest National Laboratory, Richland, WA. 06/2021 – 09/2021.

- Mentor: Theresa Gilbride of the Building America Solution Center.
- Hosting Manager: Cheryn Metzger of the Energy Efficiency Applications Team within the Energy Economics & Policy Group within the Energy and Environment Directorate.
- Collected and sorted information on DOE Zero Energy Ready Home (ZERH) certified home projects, conducted costs and energy savings calculations, and organized the data in a database along with data collected going back through past years to the program's beginning in 2013.
 - Conducted analyses on this collective pool of 8 years-worth of high-performance home data to determine trends, identified innovations and successes, and sought to further understand barriers to implementation of high-performance home measures.
- Continued work from the SULI program to complete a conference paper and conference presentation in preparation for the annual DOE's Zero Energy Ready Home (ZERH) Housing Innovation Awards (HIA) at the Energy & Environmental Building Alliance's (EEBA) High-Performance Home Summit.

- **Sustainable Construction Intern**

The Garrett Companies, Greenwood, IN. 06/2020 – 08/2020.

- Hosting Manager: Matt Anderson of the Construction Department.
- Assisted the project engineers with implementing sustainable efforts and renewable energy methods.
 - Included a 64-bay (16 panels/bay) solar car port project at two class A multi-use developments.
- Co-initiated the implementation of LEED and WELL building standards within the development process alongside the Director of Construction Administration.
- Became proficient in Procore and assisted with specification books, daily observation reports, documentation, drawing sets, punch lists, bid analysis, plan takeoffs, scopes of works, and submittals.

Volunteer Experience (3)

- **Vice President**

U.S. Green Building Council UF Chapter, Gainesville, FL. 08/2018 – 05/2021.

- Acted as a member for one year and Treasurer for one year until being elected as Vice President in August 2020.

- Continued day-to-day operations, as well as coordinated community involvement events and promoted green building initiatives within the chapter.
- Kept track of the chapter's finances of \$3,000, became the liaison for funding from Student Government, and assisted with organizing extracurricular events.
- Boosted outreach while volunteering with Habitat for Humanity and Community Weatherization Coalition.
- **National Texting Team**
Sierra Club, Virtual. 08/2018 – 05/2021.
 - Promoted pro-environmental action by activating climate voters for endorsed candidates to collecting comments on key local issues.
 - Conversated with 1000's of voters per week in order to build our grassroots collective against anti-environmental acts.
- **Energy Coach**
Community Weatherization Coalition, Gainesville, FL. 08/2018 – 06/2020.
 - Helped perform energy audits on the homes of lower-income residents within Alachua County.
 - Provided residents with the tools and information needed in order to help them successfully reduce their utility bill and energy consumption.

Unrelated Experience (5)

- **Retail Associate**
Tracksmith, New York City, NY. 10/2022 – 11/2022.
 - Collaborated with the Boston HQ, London location, and NYC location to present a 2-week pop-up experience for the 2022 TCS New York City Marathon.
 - Assisted with apparel sales, merchandising equipment, product inventory, and special festivities for customers related to the marathon.
 - Was part of a team of 6 that completed inventory and packing of the pop-up space, and moved to open up the company's first NYC location in Brooklyn.
 - Included visual merchandising, product inventory, apparel and equipment sales, and light construction.
- **Barista**
Rapha, London, UK. 09/2021 – 09/2022.
 - Led team-wide cuppings with guest coffees throughout the European and Asia-Pacific regions with proper pairings and knowledge to pass on to customers. Examples include Square Mile Coffee Roasters, The Barn, Friedhats Coffee Roasters, Solberg & Hansen, Seesaw Coffee, Switch Coffee, Coffee Supreme, and Lykke Kaffegårdar.
 - Gained further experience working with and maintaining La Marzocco machines, Victoria Arduino and Mahlkonig grinders, and V60 and French press methods as well as expanded my repertoire of latte art designs.
 - Dialed in espresso, process coffee, tea, drink, food, and general orders, and kept track of changing inventory.
 - Sold and merchandised store products such as limited-time filter coffee and espresso, memorabilia, and equipment.
 - Connected and shared my passion for coffee and cycling with customers, assisted with after-hours special events, and aided customers with coffee knowledge and brewing techniques.

- **Barista + Front of House**

Afternoon Restaurant & Roasting, Gainesville, FL. 08/2020 – 06/2021.

- Processed coffee, wine, beer, and drink orders for brunch and dinner that range from basic to complex.
- Developed specialty coffee and alcoholic beverages to be featured on seasonal menus alongside the in-house sommelier.
- Sold and merchandised other store products such as coffee bags, wine bottles, pastries, clothing, and seasonal items.
- Maintained a clean and functional working environment per company best practices, upheld the restaurant's standards, and keep record of a balanced daily cash drawer.

- **Shift Supervisor**

Starbucks Corporation, Gainesville, FL. 07/2016 – 06/2020.

- Progressed as a Barista Trainer for over two years until being promoted to Shift Supervisor in December 2018.
- Assisted the store manager in executing operations for a \$60,000/week store by deploying partners and delegating tasks to create and maintain the Starbucks Experience, decrease order wait times, and improve food waste percentage.
- Contributed internally to find efficient methods to improve and increase the customer experience by 36%.
- Placed 1st in the 2018 Regional Barista Championship and was awarded Partner of the Quarter for Q3 2019.

- **Crew Member**

McDonald's, Greenwood, IN. 08/2015 – 07/2016.

- Worked various positions, such as drive-thru order and drive-thru window, food assembler, cashier, and lobby service.
- Ensured smooth execution of service through excellent communication with managers, co-workers, and customers.
- Trained new staff within the drive-thru, cashier, and food assembler positions.

Honors, Awards, and Accomplishments (5)*State (1)*

1. Bright Futures Academic Scholar Scholarship (four-year award from 2017/2018 through 2020/2021).
 - a. Award: 100% tuition and textbook stipends.

Local (4)

1. University of Florida College of Design, Construction and Planning: Dean's List (2021).
2. University of Florida College of Design, Construction and Planning: Dean's List (2020).
3. University of Florida Center for Undergraduate Research (CUR): University Scholars Program Scholarship (2020/2021).
 - a. Award: \$1,750.00
4. University of Florida College of Design, Construction and Planning: President's Honor Roll (2019).

Licenses & Certifications (10)*Green Building (5)*

1. LEED® Green Associate

- a. GBCI#: 0011403905
2. Building Green: What It Takes and Why It's Worth It (Procore Technologies)
 - a. Credential ID: b6ost9fy5jgk
3. Navigating LEED Practices for Achieving Green Certification (Procore Technologies)
 - a. Credential ID: x564igoive62
4. Planning for Sustainable Infrastructure (Procore Technologies)
 - a. Credential ID: yyxfdk4bzcs
5. Win More Business with Green Building (Procore Technologies)
 - a. Credential ID: v7jw3w9q2ewx

Construction Software (5)

1. Procore Certified: Project Manager (Core Tools) (Procore Technologies)
 - a. Credential ID: jrchketx3zsn
2. Procore Certified: Project Manager (Resource Management) (Procore Technologies)
 - a. Credential ID: er5ac6tb3h5i
3. Procore Certified: Project Manager (Financial Management) (Procore Technologies)
 - a. Credential ID: i8fk4fty3v9e
4. Procore Certified: Project Manager (Project Management) (Procore Technologies)
 - a. Credential ID: dt5tz7kt8c8s
5. Procore Certified: Project Manager (Quality & Safety) (Procore Technologies)
 - a. Credential ID: gchbijus9r7g

Technical Skills (14)***Energy Modeling (4)***

1. Beginning to intermediate user of ModelIT, SunCast, ApacheSIM, MacroFlo, and VistaPro within Integrated Environmental Solutions Virtual Environment (IES VE).
2. Beginning to intermediate user of EnergyPlus v9.6.0 building energy simulation program.
3. Beginning to intermediate user of eQuest v3.65 building energy modeling software.
4. Beginning to intermediate user of Helioscope solar PV design software.

Programming (5)

1. Intermediate to proficient user of Java with BlueJ and IntelliJ IDEA environments.
2. Intermediate to proficient user of C++ with the Microsoft Visual Studio environment.
3. Beginning to intermediate user of R with the RStudio environment v.4.2.2.
4. Beginning to intermediate user of SPSS Statistics v29.0.0.0 (241).
5. Beginning to intermediate user of Python.

Geospatial (1)

1. Beginning to intermediate user of ArcGIS Pro v3.0.3.

Project Management (1)

1. Proficient user of Procore Construction Management Software with Bluebeam Software.

Office Productivity (2)

1. Proficient user of citation management and literature archiving with Zotero 6.
2. Proficient user of Word, Excel, and PowerPoint within Microsoft Office 2013.

Visual Arts (1)

1. Adobe Certified Associate: Visual Design using Adobe Photoshop.

Languages (1)

1. English: native in reading, writing, and speaking.