Luis Quijano

Designer-Scientist | Fulbright Future Scholar

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Education

2020 – 2025 [4 years]	**Ph.D. in Fashion Design**, Queensland University of Technology, Australia Dissertation: *Sustainable Fashion through Bacterial Cellulose: Bridging Disciplines, Rethinking Materials* Advisors: Tiziana Ferrero-Regis, Laura Navone, Dmitri Golberg, Alice Payne, Robert Speight Honors: Nominated for the *Outstanding Doctoral Thesis Award*.
2014 – 2018	**B.Sc. in Fashion Design**, Liberty University, United States of America Double minor(s) in business & Chinese Honor's Thesis: *Embracing bacterial cellulose as a catalyst for sustainable Fashion*

Certifications

2025 – present	Material Characterization (Graduate Certificate), University of Florida, USA
2023	Foundations of Directorship™, Australian Institute of Company Directors, AU

Research & Teaching Interests

- BIO-: -design, -materials, -products, -technology, chemistry, material science, synthetic biology
- FASHION: bacterial cellulose, circular economy, fashion design, history, material culture, sustainability, textiles
- METHODOLOGY: bibliometrics, case studies, framework development, human-centred design, interdisciplinary, laboratory practice, mixed-methods, more-than-human design, qualitative, Research through Design/Practice, systematic, transdisciplinary

Languages Spoken

English (Native), Spanish (Fluent), Chinese (Intermediate), Thai (Elementary)

Professional Teaching Experience

2018 – 2020 English as a Second Language Teacher. China and Thailand.

- Taught English as a Second Language courses in Thailand, China, and Korea to primary, secondary, and university students at various course levels and classroom sizes (from 3 to 50 students).
  - 2018 – 2019: Qilin Primary School, CN.
  - 2019 [summer]: Taiyuan University of Technology, CN.
  - 2019 – 2020: Pagoda SCS (online), TH.

- Prepared teaching plans, course syllabi/content, and additional learning resources for students depending on age and subject.

Professional Academic Experience

2025 — Visiting PhD student, Augustana University, Department of Chemistry and Biochemistry, USA

- Achieved hands-on proficiency in HPLC (LC1100) including instrument operation, method creation (isocratic and gradient elution), chromatogram analysis, calibration curve preparation, and optimization of detector wavelengths (isoabsorbance and 3D plots).
- Gained practical expertise in FTIR (iS-50), such as sample preparation (liquids, films, solids, and gases), spectral interpretation, and use of accessories and correction techniques (transmission, ATR, specular and diffuse reflectance, KBr pellets, and gas cell).
- Trained in DSC (60-Plus) and TGA (50) operation, including thermogram collection and analysis, mass loss calculation, identification of thermal transitions (glass transition, melting, crystallization, oxidation), and use of advanced calibration and data export functions.
- Developed skills in UV-VIS (1800) spectrophotometry, encompassing solution preparation, instrument calibration, spectral data acquisition, and quantitative and qualitative analysis of sample absorbance for color and concentration determination.

2024 – 2025 — Visiting PhD student, East China University of Science and Technology, School of Chemistry and Molecular Engineering, Shanghai, CN.

- Selected as the inaugural Young Excellent Scholar Program visiting student; integrated into a multidisciplinary chemistry research team as the sole designer among scientists and engineers.
- Engineered novel coloration of bacterial cellulose using medicinal plant-based dyes (safflower, lithospermum), including temperature controls and mordanting procedures.
- Gained hands-on experience with sample preparation techniques (sputter coating, freeze drying, preparing powders and films) for SEM, FTIR, XRD, and tensile testing.
- Utilized a 3nh YS4510 spectrophotometer to quantitatively assess dye uptake, calculating

2022 — PhD Industry Internship. Company: Metakosmos (Vyom Tech Pty Ltd.), AU.
Project title: Materials research on soft robotics for joint support in exoskeletons [for spacesuits]

- Searched, evaluated, and catalogued over 2,000 advanced materials including smart textiles, flexible coatings, and functional laminates using databases for exoskeleton spacesuit construction.
- Built a bespoke supply chain database profiling 100+ Southeast Asian and Australian suppliers, mapping regional strengths in technical textiles, finishes, and composites for space-tech applications.

Awards & Scholarships

I am a recipient of local, regional, national and international honors recognizing research excellence, leadership and outreach including competitive scholarships totaling nearly USD $250,000 in funding.

2024	Visiting Scholar Scheme. Australian Research Centre of Excellence in Synthetic Biology, AU. Funding awarded: AUD $3,000
2024	AI in Design Summer School Scholarship, Southern University of Science and Technology, Shenzhen, CN. Funding awarded: Round-trip flight from Australia to China, plus accommodation for 1 week [only 1 awarded out of more than 60 applications]
2024	Advanced Innovative Talents Frontier Technology Workshop, East China University of Science and Technology, Shanghai, CN. Funding awarded: Living stipend & accommodation for 3 weeks. I was the only designer in a group of scientists and engineers.
2024	Excellence in Outreach, Australian Research Centre of Excellence in Synthetic Biology, AU. Funding awarded: AUD $1,000 [5 members awarded from 300+ members]
2023	Excellence in Outreach, Australian Research Centre of Excellence in Synthetic Biology, AU. Funding awarded: AUD $1,000 [7 members awarded from 300+ members]
2023	Performance Bonus, CSIRO On Prime (Cohort 15) Funding awarded: AUD $5,000 [to my team: AllBio Oliban & Balsam] Note: ON Prime helps research teams advance projects through customer discovery and stakeholder engagement. Teams learn how to communicate with key audiences. Expert facilitators and mentors guide teams to build evidence for their research's societal value, attracting funding and industry partnerships. This work was used later for a successful AEA Innovate AUD $1.1 million application.
2022	First Place, Moonshot International Bootcamp Pitch Challenge Funding awarded: AUD $3,000 Note: Moonshot is an incubator ecosystem for space technology that has invested $860k, currently valued at over AUD $10 million+, creating an ecosystem worth $125 million and leading to 120+ new jobs created.
2022	Joan M. Laughlin Fellowship: Outstanding Continuing Doctoral Student, International Textile and Apparel Association Funding awarded: USD $1,000 [Only 1 awarded this year]
2021	Marjorie Joseph Fellowship: Outstanding Beginning Doctoral Student, International Textile and Apparel Association

	Funding awarded: USD $1,000 [Only 1 awarded this year]
2021	ESRAP Student Merchandising Competition (Graduate winner), Educators for Socially Responsible Apparel Practices
2017	Award for Best Cultural Fashion Pieces, Liberty University

Refereed Journal Articles

1. **Quijano, L.***, Pedroso-Roussado, C., & Migliore, E. (2026: In Press). Broadening Art–Science Collaboration in Biotechnology: Integrating Design. *Trends in Biotechnology*. DOI: https://www.doi.org/10.1016/j.tibtech.2025.12.014

   (Q1 in Biotechnology; Q1 in Bioengineering; 2025 Impact Factor 14.9)

2. **Quijano, L.**, Jing, Z., Ferrero-Regis, T., Navone, L., Golberg, D, & Zhang, W*. (2026). Becoming a Designer-Scientist: A Designer's Journey into Laboratory Practice and Material Characterization as Creative Tools for Biodesign with Bacterial Cellulose. *Thinking Skills and Creativity*, *60*, 102125. DOI: https://doi.org/10.1016/j.tsc.2025.102125

   (Q1 in Education; 2025 Impact Factor: 4.5)

3. **Quijano, L. ***, Fischer, D., Ferrero-Regis, T., & Navone, L. (2025). Exploring bacterial cellulose as an engineered living and programmable biomaterial across disciplines through qualitative thematic analysis. *Scientific Reports*, *15*(17980). DOI: https://doi.org/10.1038/s41598-025-01931-1

   (Q1 in Multidisciplinary; 2024 Impact factor: 3.8; Cited 1 time)

4. **Quijano, L. ***, Fischer, D., Rodrigues, R., & Wei, Y. (2025). Navigating the Bacterial Cellulose Landscape: A Bibliometric Study on Research Evolution. *Cellulose*, *32*, 59-80. DOI: https://doi.org/10.1007/s10570-024-06260-6

   (Q1 in Polymers and Plastics; 2024 Impact factor: 4.9; Cited 3 time)

5. **Quijano, L. ***, Payne, A., & Ferrero-Regis, T. (2024). Fashion's New Frontier: Integrating Biotechnological Innovation and Design with Bacterial Cellulose. *International Journal of Fashion Design, Technology and Education*, *18*(3), 444-456. DOI: https://doi.org/10.1080/17543266.2024.2430582

   (Q1 in Visual Arts and Performing Arts; 2023 Impact factor: 1.9; Cited 4 times)

6. **Quijano, L. ***, Rodrigues, R., Fischer, D., Tovar-Castro, J. D., Payne, A., Navone, L., Hu, Y., Yan, H., Pinmanee, P., Poon, E., Yang, J. H., & Barro, E. (2024). The Bacterial Cellulose Cookbook: A Review on Sustainable and Cost-Effective Substrates. *Journal of Bioresources and Bioproducts*, *9*(4), 379-409. DOI: https://doi.org/10.1016/j.jobab.2024.05.003

   (Q1 in Materials Science; 2023 Impact factor: 20.2; Cited 56 times)

7. Henninger, C. E.*, Brydges, T., Le Normand, A., Luo, S., **Quijano, L.**, Wood, J., Yan, S. (2023). How do companies communicate their 'sustainable' material innovations on company

websites? *International Journal of Sustainable Fashion & Textiles*, *2*(2), 163-188. DOI: https://doi.org/10.1386/sft_00027_1

(No Q-ranking or impact factor yet – new, emerging journal; Cited 5 times)

8. **Quijano, L.**, Speight, R., & Payne, A*. (2021). Future fashion, biotechnology and the living world: Microbial cell factories and forming new 'oddkins'. *Continuum, Journal of Media & Culture Studies*, *35*(6), pp. 897-913. DOI: https://doi.org/10.1080/10304312.2021.1993574

(Q1 in Cultural Studies + Visual and Performing Arts; 2020 Impact factor: 2.14; Cited 25 times)

Refereed Conference Papers

1. Hao, Y., Caldwell, G. A., Teixeira, M., **Quijano, L.**, Chen, Y., Chamorro-Koc, M. I. (2025). The Human Side of Hand Dysfunction: Challenges and Experiences in Home-Based Rehabilitation. OzCHI '25: Proceedings of the 37th Australian Computer-Human Interaction Conference (944-953). DOI: https://doi.org/10.1145/3764687.3769948

2. Wei, Y., **Quijano, L.**, Hu, Y., Yan, H., Chamorro-Koc, M., Gomez, R., & Kerr, G. (2024). Review of recent trends in home-based rehabilitation assistive devices design for shoulder movement. In OzCHI '24: Proceedings of the 36th Australian Computer-Human Interaction Conference (580-590). DOI: https://doi.org/10.1145/3726986.3726993

Refereed Case Studies

1. Payne, A.*, & **Quijano, L.** (2023). Is the Future of Fashion, Pineapples? Commercializing Biomaterials. In *Bloomsbury Fashion Business Cases*. London: Bloomsbury. Retrieved from: http://dx.doi.org/10.5040/9781350893085.011

2. **Quijano, L. ***, & Howard, M. (2020). Bacterial Cellulose: Forging Fashion as an Interdisciplinary Practice. In *Bloomsbury Fashion Business Cases*, edited by Hannah Crump: Bloomsbury Publishing. Retrieved from: http://dx.doi.org/10.5040/9781350996014.0016

3. **Quijano, L. ***, & Howard, M. (2019). Sourcing in Bangladesh: Deciding Which Supplier to Use. In *Bloomsbury Fashion Business Cases*. London: Bloomsbury Academic. Retrieved from: http://dx.doi.org/10.5040/9781350996007.0010

4. **Quijano, L. ***, & Howard, M. (2018). Natural or Synthetic Dyes?: The Preservation of Indigenous Textile Dyeing Techniques. In *Bloomsbury Fashion Business Cases*. London: Bloomsbury Academic. Retrieved from: http://dx.doi.org/10.5040/9781474208772.006

Book Chapter

1. **Quijano, L. ***, & Howard, M. (2020). Natural or Synthetic Dyes?: The Preservation of Indigenous Textile Dyeing Techniques (Chapter 5). In *Fashion Businesses Cases: A Student Guide to Learning with Case Studies*, New York, USA: Fairchild Books/Bloomsbury Publishing

Encyclopedia Article

1. **Quijano, L.** *, & Payne, A. (2024). Bacterial Cellulose and its Applications in the Textile and Apparel Industry. *Bloomsbury Encyclopedia of World Textiles*, Volume 10 - Textile Futures

Book Review

1. **Quijano, L*.** (2021). [Review of the book Painted Faces: A Colorful History of Cosmetics, by Susan Stewart]. *Journal of Dress History*, *5*(4), pp. 183-85. Retrieved from: https://dresshistorians.org/wp-content/uploads/2021/08/Early-Autumn-2021-issue.pdf

Manuscripts Under Review

1. Chua, A., & **Quijano, L.*** (2025: revise & resubmit). Exploring Environmental Graphics, Augmented Reality and Salutogenic Design in Healthcare Workspaces for Employee Wellbeing through Focus Groups and Interviews. *SAGE OPEN*.

   (Q1 in Visual Arts and Performing Arts; 2023 Impact Factor: 2.0)

Research in Progress

1. **Quijano, L.**, Jing, Z., Navone, L., Golberg, D., & Zhang, W*. (2026 – Writing the manuscript). Color Quest: The Role of Mordants in Dyeing Bacterial Cellulose. Target journal: *Advanced Composites and Hybrid Materials*.

2. **Quijano, L.***, Kumar, S., O'Malley, M., Chandra, V., Minnehan, J., & Fischer, D. (2026 – Writing the manuscript). The Bio-hubs Framework: A PLAN-to-ROADMAP Approach for Sustainable Waste-to-Value Material Innovation in Local and Regional Communities. Target journal: *Sustainable Horizons*.

3. **Quijano, L**., Hua, Z., & Migliore, E.* (2026: data analysis). An Educational Framework for AI-Assisted Material Literacy, Engagement and Storytelling in Material Design. Target journal: *Humanities & Social Sciences Communications*

Invited Lectures & Conference Presentations

Since 2018, I have delivered 30+ invited talks, guest lectures, and conference presentations to more than 1,650+ people across 11 countries both in-person and remotely. These include academic, governmental, and industry forums, with topics spanning fashion technology, biomaterials, and synthetic biology. My speaking and presenting engagements have included:

1. **Quijano, L.** (2025, September). Design's Living Future: Biotechnology and Transdisciplinary Innovation for Sustainability. University of the Philippines Baguio, Baguio, PH [~20 in attendance] Link: https://www.youtube.com/watch?v=d6AauVB5c8Q

2. **Quijano, L.** (2025, September). Design's Living Future: Biotechnology and TransdisciplinaryInnovation for Sustainability (Graduate course: CADS 7530 Sustainability Theory and Applications). Auburn University, Alabama, USA. [~15 in attendance]

3. **Quijano, L.** (2025, April). Sustainable Fashion Through Bacterial Cellulose: Bridging Disciplines, Rethinking Materials. Simbionet + Universidad del Chile, Santiago, CL. [~10 in attendance]

4. **Quijano, L.** (2025, January). Bioactive and biochic: Bridging disciplines, Rethinking Materialities through Bacterial Cellulose and Bioactive Compounds. Friedrich-Alexander University of Erlangen-Nuremberg, Erlangen, DE [~20 in attendance]

5. **Quijano, L.**, Ziyuan, J., Zhang, W., & Navone, L. (2024, October). Colour Quest: The essential role of mordants in dyeing bacterial cellulose for textiles. 6th International Symposium on Bacterial Cellulose. Shanghai, CN. [~100 in attendance]

6. **Quijano, L.** (2024, October). Transforming sea urchin waste into wealth: The vision of biohubs and synthetic biology. National Centro Workshop, Melbourne, AU. [~60 in attendance]

7. **Quijano, L.** (2023, July). Synthetic biology outreach and remediate card game. Mallacoota Secondary School, Mallacoota, AU. [~60 in attendance]

8. **Quijano, L.** (2023, May). Future fashion & Biotechnology. John Hopkins University School of Medicine, Baltimore, USA. [~20 in attendance]

9. **Quijano, L.** (2023, April) Waste to Value: Turning By-products into resources. Baw Baw Shire Council: Specialised Agricultural Industry Development (SAID) Working Group. Gippsland, Victoria, AU. [~ 15 in attendance]

10. **Quijano, L.** (2023, April) Waste to Value: Turning By-products into resources. Victorian Bioenergy Network. Gippsland, Victoria, AU. [~100 in attendance]

11. **Quijano, L.** (2023, March). Bacterial cellulose is 'ALIVE': Practitioners' experiences developing bacterial cellulose as a versatile emerging biomaterial. Earth, Water, Air, Fire: The Four Elements of Fashion, International Fashion Conference, Venice, IT. [~30 in attendance]

12. **Quijano, L.** (2022, November). Fashion biotechnology. University of Delaware, Newark, USA. [~30 in attendance]

13. Watkins, T., Moffit, K., **Quijano, L.**, Payne, A., Speight, R., & Navone, L. (2022, October). Chromoprotein bio-dyes as a novel textile dyeing process for cellulosic textiles. ITAA Annual Conference, Denver, CO, USA. [~30 in attendance]

14. McKinney, E., Robertson, C., **Quijano, L.**, Ha-Brookshire, J. E., & Keegan, M. (October 2022). Lessons Learned from the Fulbright Award Applications and Experiences: Advice to Future Fulbrighters. ITAA Annual Conference. Denver, Colorado, USA. [~20 in attendance]

15. **Quijano, L.** (2022, September). Bacterial cellulose is 'ALIVE': Practitioners' experiences developing bacterial cellulose as a versatile emerging biomaterial. 5th International Symposium on Bacterial Cellulose, Jena, DE. [~40 in attendance]

16. **Quijano, L.**, (2022, September). Bacterial Cellulose. University of Manchester, London, UK. [~20 in attendance].

17. **Quijano, L.**, (2022, September). Fashion Biotechnology and Sustainable Biomaterials: The Case of Bacterial Cellulose, Universita Iuav di Venezia, Venice, IT. [~30 in attendance]

18. **Quijano, L.** (2022, August). Fashion Biotechnology and Sustainable Biomaterials: The Case of Bacterial Cellulose. Panublix & Iloilo University of Science & Technology, Iloilo, PH. [~20 in attendance]

19. **Quijano, L.** (2022, May). Sustainable Fabrics & Future Innovation. International College of Management, Sydney, AU. [~25 in attendance]

20. George, J., **Quijano, L.**, Vijayakumar, V., Cook, T. J. A., Garcia, A., & Carter, L. (2022, April). Looking at the AUS SynBio future through different lenses and research. ARC Centre of Excellence in Synthetic Biology Annual Conference, Hunter Valley, AU. [~200 in attendance]

21. **Quijano, L.** (2022, April). Future fashion and biotechnology with bacterial cellulose. University of New South Wales, Sydney, AU. [~10 in attendance]

22. Kelsey, K., & **Quijano, L.** (2021, November). Fashion our future by refashioning education. The Responsible Fashion Series Symposium: How Do We Make Our Ideas into Reality, Istituto Marangoni, London, UK. [~50 in attendance]

23. **Quijano, L.** (2021, September). Bacterial cellulose and its contribution to a circular fashion industry through design and biotechnology. Queensland University of Technology, Brisbane, AU. [~40 in attendance]

24. **Quijano, L.** (2021, June). Bacterial cellulose. QUT Centre for Agriculture and Bioeconomy: Industrial and Synthetic Biotechnology Program, Brisbane, AU. [~30 in attendance]

25. **Quijano, L.** (2021, June). Sustainable Biomaterials in the Fashion Industry. International conference on Sustainability in Fashion Design & Manufacturing, Coimbatore, IN. [~50 in attendance]

26. **Quijano, L.** (2021, April). Biodesigning Materialities. [BA (Hons) Textile Design Programme]. Birmingham City University, Institute of Jewelry, Fashion & Textiles, Birmingham, UK. April 2021. [~20 in attendance]

27. **Quijano, L.** (2021, March). Biodesign and sustainability: The case of bacterial cellulose. Ecotopia: Digital Symposium, Imperial College London, London, UK. [~60 in attendance]

28. **Quijano, L.** (2018, April). Utilizing an alternative paradigm for the development of bacterial cellulose within the textile and apparel industry. 8th International Istanbul Textile Congress, Istanbul, TR. [~100 in attendance]

29. **Quijano, L.** (2018, April). Embracing bacterial cellulose as a catalyst for sustainable fashion. Liberty University Undergraduate Research Symposium. Liberty University, Lynchburg, VA, USA. [~20 in attendance]

30. **Quijano, L.** (2018, April). Embracing bacterial cellulose as a catalyst for sustainable fashion. Southern Regional Honor's Conference, speaker, and moderator. Asheville, NC, USA. [~40 in attendance]

31. **Quijano, L.** (2017, August) Bacterial cellulose. Liberty University Faculty Orientation. Liberty University, Lynchburg, VA, USA. [~300 in attendance]

32. **Quijano, L.** (2017, July). Bacterial cellulose. Queensland University of Technology's Speculative Materials Seminar. Brisbane, AU. [~20 in attendance]

Funding (Awarded)

Advanced manufacturing of high-value organic fragrances from sugarcane feedstocks.

PIs: Ali Jahanian (PI), Zeyu Lu, Carlos Luna-Flores, Ian O'Hara, Sam Jahangard, Michael Shipley, **Luis Quijano**, Sharooz Rahmati

Source of Funds: Australia's Economic Accelerator – Innovate

Amount Funded: AUD $1,150,922
Dates: 2026 – 2027

Biohubs 2.0: Cracking Sea Urchin Chitin, Unlocking Spinochrome Pigments and Substrate Partnerships
PIs: Sheemal Kumar (PI), Luis Quijano (grant writer), Mary O'Malley, Vidi Chandra, Colin Jackson, James Antoney
Source of Funds: Australian Research Centre of Excellence in Synthetic Biology
Amount Funded: AUD $25,000
Dates: 2026 (1-year)

Pioneering a Waste-to-Product Framework with Sea Urchins in Mallacoota through Community Engagement
PIs: Artem Anyshchenko (PI), Luis Quijano (grant writer), J-L Heylen, Mary O'Malley, Sheemal Kumar, Nicola Watts, Vidi Chandra
Source of Funds: Australian Research Centre of Excellence in Synthetic Biology
Amount Funded: AUD $25,000
Dates: 2024 – 2025 (1.5 years)

Optimising Synthetic Microbial Communities for Sustainable Bio-Industrial Processes
PIs: Joachim Larsen (PI), Evan Gibbs, Heema Vyas, Luis Quijano, Axayacatl Gonzalez, Tiffanie Nelson
Source of Funds: Australian Research Centre of Excellence in Synthetic Biology
Amount Funded: AUD $25,000
Dates: 2024 (1 year)

Student research presentation grant (to Turkey)
PIs: Luis Quijano
Source of Funds: Liberty University
Amount Funded: USD $1,500
Dates: 2018

Provost's Award for Research Excellence
PIs: Luis Quijano
Source of Funds: Liberty University
Amount Funded: USD $3,500
Dates: 2017

Funding (Review in Progress)

Bioactive and biochic: crafting transdisciplinary fronts in fashion and pharmacy design through bacterial cellulose and sustainable bioactive compounds
PIs: Luis Quijano
Source of Funds: Alexander von Humboldt Postdoctoral Research Fellowship
Host Institution: Friedrich-Alexander University of Erlangen-Nuremberg, DE
Total funding: USD $107,156.24
Prospective Dates: 2026 – 2027
Application status: Submitted
Bacterial Cellulose as a sustainable platform for materials and delivery systems in Pharmaceutical and Food Sciences

PIs: Angela Faustino Jozala (PI), Dagmar Fischer (International collaborator), Luis Quijano (International collaborator)
Source of Funds: FAPESP (São Paulo Research Foundation), Thematic Research Project (5-year)
Primary Institution: University of Sorocaba, BR
Prospective Dates: 2026 – 2031
Application Status: Preliminary submission and review

Funding (Not Rewarded)

Developing a sea urchin economic network for value-added products and technologies
Source of Funds: Circular Economy Innovation Fund: Round 4 – Capability Building.
Funding Requested: AUD $410,000
Date Applied: 2024
Primary Institution: Macquarie University, AU

Fashion Business Cases for International Higher Education
Source of Funds: United States Department of Agriculture Grant
Funding Requested: USD $150,000
Date Applied: 2024, 2025
Primary Institution: University of Delaware

Bioactive and biochic: Transdisciplinary approaches to sea urchin by-product utilization in pharmaceuticals and sustainable fashion
Source of Funds: Australia-Germany Joint Research Cooperation Scheme
Funding Requested: AUD $12,500
Date Applied: 2024

Professional Involvement

Editorial Board Member:
International Journal of Sustainable Fashion & Textiles

Ad hoc Reviewer:
Advances in Material Sciences & Engineering
Fashion Highlight Journal

2023 – 2024 Textile and Apparel Programs Accreditation Commission (TAPAC)
Website committee member (2023 – 2024)

Note: I contributed to transitioning the Textile and Apparel Programs Accreditation Commission's pre-existing web pages from the ITAA website to a separate, more visually engaging Squarespace site, enhancing the user experience and accessibility.

2021 – present Australian Research Centre of Excellence in Synthetic Biology (ARC CoESB)
Deputy Chair and Member of the Equity, Diversity and Inclusion committee (2022-2024) Member in the Conference Planning Committee (2021-2023)
Note: I served as the Deputy Chair of the Equity, Diversity, and Inclusion (EDI) Committee at the ARC Centre of Excellence in Synthetic Biology (CoESB)—a $35 million AUD national research organization spanning nine Australian

universities and over 300 members. In 2023, I organized CoESB's first-ever EDI panel at its annual conference and a second panel in 2024. I helped establish a confidential reporting system independent of university structures to our EDI committee, ensuring members felt safe addressing EDI-related concerns. I also led a member-wide survey to assess perspectives on equity and inclusion and presented our findings at the 2023 annual CoESB conference. In addition, I helped plan the annual 2022 and 2023 CoESB conferences, from souvenirs to field trip excursions, speaker arrangements, screening posters and presentation submissions, industrial sponsors and more

2021 – present

International Textile and Apparel Association (ITAA)
Co-Chair of the Website Ad-hoc Committee (2023 – 2024)

- Assisted in translating the recommendations from the Website Improvement Report (mentioned below) into actionable items to make the new ITAA website.
- Helped the Executive Director transition the ITAA website platform from YourMembership to NeonOne. Organized and judged the ITAA Global Competition: Branding Style Tile Contest
- Administered a logo contest via DesignCrowd, receiving over 200 entries and conducting an internal ITAA membership poll to select the new logo.
- Developed the official ITAA branding style guide which is available on the ITAA website

Digital Media & Marketing Committee (2021 – 2024)

- Participated in bi-monthly meetings and helped write the ITAA Website Improvement Recommendations Report (135 pages) in 2021-2022.

Graduate Student Liaison (2022)

- Participated in full-day online sessions for ITAA's strategic planning
- Organized the Graduate Student Fireside Chat panel for the 2022 ITAA annual conference.
- Contributed bi-monthly articles to the ITAA newsletter.

2021 – present

Union of Concerned Researchers in Fashion (UCRF)
Board Member (2024 – present)
Website & Social Media Working Committee (2021 – 2022)
Indices Committee (2021 – 2022)

Note: As a board member of the Union of Concerned Researchers in Fashion (UCRF), I attend bi-weekly meetings to help manage the association, which has over 250 members globally. In the Website & Social Media Committee, I helped transition the UCRF website to a more visually engaging and organized Squarespace platform, using Miro for collaborative brainstorming. In the Indices Committee, I contributed to the creation of a measurement scale for evaluating key sustainability factors in fashion production, supporting the UCRF's efforts to define and assess sustainable practices in the industry.

2021 – present	Note: I held an international workshop regarding bibliometric and systematic methodologies and was involved in their Future Fashions working group. The Future Fashions working group outcome led to a report paper, Fashion Futures 2040, which can be found at: https://issuu.com/sustainablefashionconsumption/docs/fashion_futures_start_for_issuu
2020 – present	The Association of Dress Historians Member and Book reviewer
2018 – 2019	American Society of Microbiologists, Graduate member
2018 – 2019	American Chemistry Society, Graduate member

Media & Outreach

Featured in 25+ local, national, and international news outlets across print, digital, radio, and TV on fashion biotechnology, sustainability, and innovation topics.

1. The DateKeepers Podcast. (2025, September 1). Episode 5: Blurring the Lines – A Conversation with Luis Quijano. [Link]

2. ABC Australia (2025, July 18). Climate change turned sea urchins into a pest, scientists are finding a solution. [Link]

3. PhD: The Experience Podcast. (2025, January 10). [Link]

4. Microsoft News. (2024, October 8). Systematic review uncovers 299 alternative substrates for bacterial cellulose production.

5. Phys.org. (2024, October 7). Systematic review uncovers 299 alternative substrates for bacterial cellulose production. [Link]

6. ABC Gippsland. (2024, September 11). Sea urchin waste into high-value applications. Gippsland Breakfast.

7. Tocco. (2024, January 12). Bio-fibers spark new era in fashion. [Link]

8. Queensland University of Technology. (2022, September 15). Visualise your Thesis (VYT) 2022 Judges Runner Up – Luis Quijano, Faculty of Creative Industries, Education and Social Justice. [Link]

9. Queensland University of Technology. (2022, April 22). QUT Earth Day: Luis Quijano and Kombucha Leather. [Link]

10. Liberty University News Service. (2020, April 8). Dedication, passion and providence lead Liberty's first Fulbright Future Scholar to Australia. [Link]

11. Liberty University Champion. (2020, March 31). Liberty Fulbright Finalist Brings Science to the Fashion Industry. [Link]

12. ExpoTextileNews. (2018, July 20). Estudiante Usa Nueva Tecnologıa Para Hacer Crecer La Ropa De Manera Sostenible. [Link]

13. Fibre2Fashion. (2018 July 17). US varsity student cultivates bacterial cellulose in lab. [Link]

14. Biofuels Digest. (2018, March 14). Crack that Whip! Modern Meadow, Evonik partner to take vegan leather to world-scale. [Link]

15. Lynchburg Living Magazine. (2018, March 1). Person of Interest: Luis Quijano March/April 2018. [Link]

16. WFXR Fox News. (2018, February 8). Liberty student grows clothes, attempts to revolutionize the fashion industry. [Link]

17. Cape Cod Times. (2018, January 12). College senior is trying to grow his own clothes. [Link]

18. Daily Blast Live. (2018, January 3). Future of Fashion: Student Grows Clothes [Link]

19. Lynchburg News Advance. (2018, January 2). Liberty University student explores 'growing your own clothes' through fermentation. [Link]

20. Study Breaks Magazine. (2018, January 1). The Fabric of Change. [Link]

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