Katelyn Hickman Curriculum Vitae

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# Education

* 2020 – 2023, B.S. in Bioinformatics, Utah Valley University
  + Minor in Biology
  + Minor in Computer Science
* 2018. B.S. in Integrated Studies, *summa cum laude*, Utah Valley University
  + Emphasis in Earth Science
  + Emphasis in Peace & Justice Studies
* 2018. B.A. in Philosophy, *summa cum laude*, Utah Valley University

# Publications

* (forthcoming) **Hickman, K.J.E.** (2022) *The Integral Role of the Coastal Microbiome in Mangrove Conversation*. United Nations, “Why It Matters” Annual Conference Proceedings.
* (in prep for Environmental Microbiology) Wainwright, B., Millar, T., **Hickman,** **K. J. E**., Bowen, L., Zahn, G. *Microbial Associations in Mangrove Ecosystems.*
* (in prep for Environmental Earth Sciences) Cadet, E., **Hickman,** **K. J. E.,** Rawson, C., Batte, L., Seawolf, S., Larsen, T. (2021). *Trace Metal Concentrations in Upland and Wetland Sediments of Utah Lake*. National Science Foundation, Utah Lake Project.

# Research

* **Hickman, K. J. E**., Leon, J., Zahn, G. (2022) *A Blue Carbon Pathway in Mangrove Microbial Communities*.
* Bingham, C., **Hickman, K. J. E**., Leon, J., Pimentel, I., Garcia, J., Rawson, C. (2022) *A Toxic Legacy: Nuclear Pollution in the Navajo Nation. Oxford University, Map the System*.
* Cadet, E., **Hickman, K. J. E.** (2022). *Trace Metal Concentrations in Fish and Water of Utah Lake*. National Science Foundation, Utah Lake Project.
* DeVynck, D., **Hickman, K. J. E.** (2019). *Permaculture Plant Guilds in Traditional Furrows*. Orem Permaculture Project.
* **Hickman, K. J. E**. (2018). *Agriculture in Guinea-Bissau: The Viability of Agroforestry with Cacao and Cashew*. Utah Valley University Honors Program.
* Emerman, S. H., **Hickman, K. J. E**., Pacheco, W., Patterson, C., and Tolman, A. (2018). *Estimation of the Stream Water Quality Baseline in the Henry Mountains, Utah*. Utah Valley University.
* **Hickman, K. J. E**., Minch, M. (2017). *PeaceTech and the Future of Peacebuilding and Sustainable Development*. Utah Valley University.
* Hansen, J., **Hickman, K. J. E**. (2017). *Tracking Intuition on the Trolley Problem*. Utah Valley University.

# Work Experience

* 2021 – Present. Library Supervisor, Fulton Library, Orem UT
* 2022. Lab Assistant, National Science Foundation, Utah Lake Project
* 2022. Formal Logic and Discrete Mathematics Tutor, Utah Valley University, Orem, UT
* 2021. Research Assistant, National Science Foundation, Utah Lake Project
* 2018. Pedology Consultant, Summit Knowledge and Action Network. Orem, UT
  + Designed, researched and conducted soil testing for agroforestry potential
* 2017. Student Fellow for the Center for the Study of Ethics, Utah Valley University, Orem, UT
  + Research, administrative organization, event planning
* 2016 - 2017. Geology & Logic Tutor, Utah Valley University. Orem, UT
  + Tutor for Earth Science and Formal Logic
* 2014 - 2016. Senior Sales Coach & Recruiting Administrator, Clearlink, Orem, UT
  + Training, interviewing, and disciplinary action

# Teaching Experience

* 2017 - 2020. ELL Teacher, Macote Entrepreneur Center, Bissau, Guinea-Bissau
  + ENG Level 0, ENG Level 1, ENG Advanced Literature
* 2017 - 2018. Instructional Assistant, *Principles of Formal Logic,* Utah Valley University, Orem, UT
  + PHIL 1250: Introduction to Logic and Critical Thinking
* 2016 - 2018. Instructional Assistant, Utah Valley University, Orem, UT
  + PHIL 2050: Ethics & Values

# Languages and Tools

* + Natural Languages:
    - Spanish: conversational proficiency
    - Portuguese-based Creole: fluent
    - Portuguese: intermediate proficiency
  + Computational Tools:
    - R
    - BASH
    - Python
    - SQL
    - Julia
    - Supercomputer
    - ArcGIS

# Honors and Awards

* 2022. Excellence in Undergraduate Research, University of Oxford
* 2022. President’s Scholarship Ball “Outstanding Student” Highlight, Utah Valley University
* 2022. Biology Department “Student of the Year” nominee, Utah Valley University
* 2018. College of Humanities and Social Science “Dean’s Choice” award, Utah Valley University
* 2018. Philosophy Department “Student of the Year” award, Utah Valley University
* 2017 – Present. Honors Program, Utah Valley University
* 2016 – Present. Dean’s List, Utah Valley University

# Grants

* 2022-2023. Center for Social Impact Systems & Design Fellowship, Utah Valley University
  + $5,200 for tuition
* 2022-2023. L.E.A.D. Program Leader, Utah Valley University
  + $1,500 for cost of living
* 2022. URSCA Dissemination Grant. Utah Valley University
  + $1,200 for travel and dissemination
* 2021-2022. UVU Review Executive News Director, Utah Valley University
  + $5,200 for tuition
* 2021. URSCA Dissemination Grant. Utah Valley University
  + $1,500 for travel and dissemination
* 2018. Bill and Margaret Pope Scholarship. Privately Funded
  + $1,259 for tuition and books
* 2018. Honors Tuition Scholarship. Utah Valley University
  + $1,500 for tuition and books
* 2018. Honors Housing Scholarship. Utah Valley University
  + $1,500 for housing
* 2017. Grants for Engaged Learning. Utah Valley University
  + $2,500 for research to and travel to “Transforming Education Conference for Humanity (TECH)” in Visakhapatnam, India
* 2017-2018. Student Fellow at the Center for the Study of Ethics. Utah Valley University
  + $3,360 for term stipend and research

# Presentations

* **Hickman, K. J. E.** (October, 2022). *The Integral Role of the Coastal Microbiome in Mangrove Conservation*. Paper forthcoming in United Nations’ “Why it Matters” conference proceedings.
* Zahn, G., **Hickman, K. J. E.**, Semon, L. (July 2022). *Microbial Interactions in Mangroves: An R Analysis*. Presented at the Mycological Society of America.
* **Hickman, K. J. E.** (June, 2022). *The Social Impact of Radioactive Waste in the Navajo Nation*. Map the System competition, University of Oxford.
  + Global Finalists
* **Hickman, K. J. E.** (February, 2022). *Trace Metal Concentrations in Utah Lake*. Presented at Utah’s Conference on Undergraduate Research.
* **Hickman, K. J. E.** (November, 2021). *The Social Impact of Radioactive Waste in the Navajo Nation*. Map the System competition, Utah Valley University.
  + 1st Place Winners
* **Hickman, K. J. E.** (September, 2021). *Trace Metal Concentrations in Utah Lake*. Presented at the Geological Society of America’s annual conference.
* **Hickman, K. J. E.** (October 2018). *Men and Meat: The Patriarchy of Human-Animal Relations.* Paper presented at the UVU Conference on Writing for Social Change.
* **Hickman, K. J. E.** (April 2018). *Considering Sustainability: Farming and Agriculture*. Paper presented in “Human Exceptionalism: Shifting Toward Biocentrism“ discussion panel at the Student Ethics Symposium.
* **Hickman, K. J. E.** (February 2018). “My Vagina Was My Village.” The Vagina Monologues at Utah Valley University.
* Garber, N., **Hickman, K. J. E.**, and Van Dyke, C. (October 2017). *The Polarization in Partisan Politics.* Poster presented at the Student Conference on Religion in the Public Sphere. Brigham Young University.
* **Hickman, K. J. E.** (April 2017). *Resolving the Binary.* Paper presented at the UVU Student Ethics Symposium.
* **Hickman, K. J. E.** (February 2017). *The Paradox of Patriotism.* Paper presented at the Annual J. Bonner Ritchie Dialogue on Peace and Justice.

# Service Activities

* 2022 – 2023. Treasurer, Women in Physical Science Club
* 2022. Candidate for Student Body President, UVU Student Association
* 2021 – 2023. Volunteer & Participant, Girls Who Code Chapter
* 2021 – 2023. Volunteer & Participant, Black Student Union
* 2021 – 2022. Volunteer, Conserve Utah Valley
* 2020 – 2022. Ambassador, Learn, Engage, Acquire, Discover (L.E.A.D.) Program
* 2020 – 2021. News Reporter, The UVU Review
* 2019 – 2022. Volunteer Bike Mechanic, Provo Bicycle Collective
* 2020. Pollinator Project Volunteer, Wild Utah Project
* 2019. Research Intern, Orem Permaculture Project
* 2018. Integrated Studies Department Representative, UVU Student Association
* 2018. Alternative Break Conservation Volunteer, UVU Center for Social Impact
* 2017 - 2019. Editor-in-Chief, Sophia: Undergraduate Journal of Philosophy
* 2017 - 2018. President, Animal Allies Veg Club
* 2017. Philosophy Department Representative, UVU Student Association
* 2017. President, UVU Peace and Justice Club
* 2017. Vice President, Phi Sigma Tau, Utah Gamma Chapter
* 2017. Organizing Volunteer, Society for Phenomenology and Existential Philosophy