A. Anders Larson Tevis (They/Them)

Department of Earth and Space Sciences, University of Washington; tevisaa@uw.edu

Education

University of Washington January 2023 – Current

Matriculated Post-Baccalaureate: Department of Earth and Space Sciences, Honors Program

University of Washington June 2021 – December 2022

Non-Matriculated: Chemistry, Biology, Calculus, and Physics course series

Berklee College of Music September 2013 – August 2016

Undergraduate: Bachelor of Music, Performance

Honors: summa cum laude, 3.93 GPA; *North American Scholarship, Brass Department Scholarship*

Berklee Global Jazz Institute September 2014 – December 2015

Harvard University September 2015 – December 2015

Audited coursework: *Theorizing Improvisation* (Vijay Iyer); *Foundations of Modern Jazz: Topics* (Yosvany Terry)

Current Research

Department of Earth and Space Sciences January 2023 – Current

- **Advisor:** Dr. Akshay Mehra
- **Project:** Quantitative insights into stromatolite morphogenesis: A multi-scale approach to probing paleoenvironmental and biological archives
- **Techniques:** Development of quantitative textural analysis methods, quantitative analysis of three-dimensional (3D) reconstructions, geospatial data collection and analysis, structure from motion, sedimentological and stratigraphic observations and measurements, literature meta-analysis

Department of Civil and Environmental Engineering January 2023 – Current

- **Advisors:** Britt Abrahamson, Dr. Pieter Candry, Dr. Mari Winkler
- **Project:** Constraining microbially mediated climate feedbacks in wetland ecosystems using continuous feed hydrogel bioreactors
- **Techniques:** Anaerobic culturing and bioreactor maintenance, high-performance liquid chromatography (HPLC), gas chromatography, spectrophotometric analysis, cryotome sectioning, fluorescence in-situ hybridization (FISH), fluorescence microscopy, DNA extraction for 16S rRNA sequencing, soil coring

Professional Experience

RareCyte, Inc., Biology Department, R&D, Research Associate February 2020 – June 2023

- **Responsibilities:** Design and optimization of highly multiplexed immunofluorescence staining and imaging methods; development and validation of clinical circulating tumor and rare cell biomarker assays
- **Techniques:** Multiplexed immunofluorescence staining and imaging, image segmentation and quantitation, flow cytometry, antibody-fluorophore conjugation, spectrophotometric analysis, tissue culture, rare circulating cell isolation and enumeration, clinical sample processing

CellNetix Pathology and Laboratories, Molecular Lab Assistant II April 2018 – February 2020

- **Responsibilities:** Molecular characterization of cancer subtypes for diagnosis and treatment compatibility
- **Techniques:** Solid and liquid sample DNA extraction, liquid sample RNA extraction, formalin-fixed paraffin-embedded (FFPE) tissue annotation and microdissection, solid and liquid sample FISH, direct cell harvesting, cell enrichment, automated PCR, inventory and supply management, laboratory instrument and equipment maintenance, CAP proficiency testing

CellNetix Pathology and Laboratories, Lab Assistant I, Accessioning August 2017 – April 2018

- **Responsibilities:** Intake, accessioning, and distribution of samples for laboratory technical departments; utilization of clinical LIS; interdepartmental case- and client-associated error resolution

King County Library System, Library Page April 2017 – August 2017

- **Responsibilities:** Organization, processing, and distribution of materials and inventory; maintenance and organization of library environment for patron use; material inspection and processing; customer service

Publications

3. In preparation: King, M. E., **Larson Tevis, A. A.**, Mehra, A. K. (202X). A quantitative morphological analysis of Precambrian spur and groove structures from the Pethei Group, Northwest Territories, Canada.
2. In preparation: **Larson Tevis, A. A.**, King, M. E., Mehra, A. K. (202X). Testing the relationship between stromatolite form and environment: A multi-scale study of the Paleoproterozoic Pethei Group, Northwest Territories, Canada.
1. In preparation: **Larson Tevis, A. A.**, Mehra, A. K. (202X). Organosedimentary textural analysis: Development and validation of a tool to quantitatively describe micro-scale morphological features.

Conference Proceedings

3. Ramirez, A. B., Costandy, L., Gardner, B., **Larson Tevis, A. A.**, Helmicki, C., Clein, A., Sabath, D. E., Nordberg, J., George, T. Validation of enhanced performance of the AccuCyte®-CyteFinder® platform for circulating tumor cell characterization. Cancer Res 15 June 2022; 82 (12_Supplement): 1952. https://doi.org/10.1158/1538-7445.AM2022-1952
2. Chow, J., **Larson Tevis, A. A.**, Lo, E., Clein, A., Sabath, D. E., Ramirez, A. B., Kaldjian, E. P., George, T. Liquid biopsy for neuroendocrine differentiation: Validation of a circulating tumor cell assay for synaptophysin. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and May 17-21. Philadelphia (PA): AACR; Cancer Res 2021. https://doi.org/10.1158/1538-7445.AM2021-600
1. Ramirez, A. B., Lo, E., Campton, D., Costandy, L., Gardner, B., Huston, R., **Larson Tevis, A. A.**, Clein, A., Sabath, D. E., Kaldjian, E. P., George, T. Validation of a dual-marker ARv7/SYP assay for CTC characterization. In: Next Generation Dx Summit 2020, Immuno-Oncology Biomarkers and Diagnostics.

Conference Presentations

6. Submitted: **Larson Tevis, A. A.**, King, M. E., Barnes, B. D., Methley, P., Mehra, A. K. (2024, December 9-13). Testing the relationship between stromatolite form and environment: A multi-scale study of the Paleoproterozoic Pethei Group, Northwest Territories, Canada. AGU24. Washington, D.C., USA.
5. Submitted: Barnes, B. D., Methley, P., Jones, P., Mehra, A. K., King, M. E., **Larson Tevis, A. A.**, Jiang, C. Z., Tosca, N. J., Strauss, J. V. (2024, December 9-13). Geochemical controls on abiotic carbonate sedimentation in the Paleoproterozoic Pethei Group, Northwest Territories, Canada. AGU24. Washington, D.C., USA.
4. Mehra, A. K., **Larson Tevis, A. A.**, Wells, J., Barnes, B., Methley, P., King, M. E. (2024, September 22-25). Quantitative descriptions of the spatial organization of ~1.9 billion-year-old microbial buildups. 2024 GSA Connects. Anaheim, CA, USA.
3. King, M. E., **Larson Tevis, A. A.**, Mehra, A. K. (2024, September 22-25). A quantitative morphological analysis of Precambrian spur and groove structures from the Pethei Group, Northwest Territories, Canada. 2024 GSA Connects. Anaheim, CA, USA.
2. **Larson Tevis, A. A.**, King, M. E., Mehra, A. K. (2024, May 17). Quantitative Insights into Stromatolite Morphogenesis: A Multi-Scale Approach to Probing Paleoenvironmental and Biological Archives. 2024 University of Washington Undergraduate Research Symposium. Seattle, WA, USA.
1. **Larson Tevis, A.A**, Mehra, A. K. (2023, May 17-19). Accretionary growth?: Exploring the evolution of the literature on stromatolite morphogenesis. 2023 GSA Cordilleran Section Meeting. Reno, NV, USA.

Conference Attendance

GSA Cordilleran Section Regional Meeting	May 2023
Global Community Biosummit 6.0, MIT Media Lab	January 2023
American Association for Cancer Research, Annual Meeting	June 2022
Global Community Biosummit 5.0, MIT Media Lab	November 2021
American Association for Cancer Research, Annual Meeting	April 2021
Global Community Biosummit 4.0, MIT Media Lab	October 2020

Volunteer and Community Experience

Duwamish Solidarity Group	August 2020 – June 2021
King County Equity Now / Seattle Abolition Support	June 2020 – June 2021
Berklee Global Jazz Institute Community Outreach Program	September 2014 – December 2015

Internships

National Assembly of the Republic of Korea, Congressional Office of Ju-Hong Hwong	August 2012
Seodaemun-gu Government District	August 2012
Gangjin City Agricultural Department	July 2011

Selected Performances and Residencies

Tyshawn Sorey Conduction Ensemble, Stone Residency	August 2016
Tyshawn Sorey Conduction Ensemble, The Met Breuer	March 2016
Banff International Workshop in Jazz and Creative Music, *TD Fellowship Scholar*	August 2015
John F. Kennedy Center for the Performing Arts: Betty Carter's Jazz Ahead	March – April 2015
Vijay Iyer, Jazz Composition Symposium, Berklee College of Music	April 2014
Rudresh Mahanthappa, Jazz Composition Symposium, Berklee College of Music	April 2014

Honors and Awards

University of Washington, College of the Environment: *CoEnv Scholarship*	June 2024
University of Washington: *Mary Gates Research Scholarship*	December 2023
Geological Society of America: *On to the Future Award*	July 2023
University of Washington, Department of Earth and Space Sciences:	May 2023
Afton Woolley Crooks & James William Crooks Endowed Scholarship in Geological Sciences	
Julian D. and Marajane Barksdale and Joseph A. Vance Endowed Student Support Fund	
Geological Society of America: *Cordilleran Section Regional Meeting Travel Grant*	April 2023
Berklee College of Music: *North American Scholarship; Brass Department Scholarship*	2013
Fordham College: *Fordham Loyola Scholarship (Declined)*	2013
The New School for Jazz and Contemporary Music: *Jazz Scholarship; Dean's Scholarship (Declined)*	2013
New York University: *Liberal Studies Scholarship, Global Liberal Studies Program (Declined)*	2013
Oberlin College: *Conservatory Dean's Scholarship Award; John Frederick Oberlin Scholar (Declined)*	2013
Seattle University: *Trustee's Scholarship (Declined)*	2013
University of Miami: *Presidential Scholarship; Frost School of Music Scholarship (Declined)*	2013
University of Southern California: *Presidential Scholarship (Declined)*	2013
University of Washington: *University Scholarship; School of Music, Jazz Studies Scholarship (Declined)*	2013
Whitman College: *Mary Evans Higley Scholarship (Declined)*	2013