CURRICULUM VITAE

Susan L. McEvoy
University of Connecticut
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EDUCATION

PhD., Ecology & Evolutionary Biology, University of Connecticut
Expected Graduation Date: May 2023.

B.S., Biology, Oregon State University
Graduation Date: June 2002.

EXPERIENCE

Graduate Research Assistant
Ecology & Evolutionary Biology, University of Connecticut
August 2018 – present
Bioinformatic analysis of forest trees, including genome assembly, annotation, comparative genomics, transcriptomics, and epigenomics in *Acer*; structural variation analysis in *Fagus grandifolia*; assembly and annotation of the giant genome *Pinus lambartiana*. Mentor undergraduates and participate in journal clubs and seminars. Assist with bioinformatic software installation and usage. Write and edit manuscripts and present at conferences.

Graduate Teaching Assistant
Ecology & Evolutionary Biology, University of Connecticut
January – December 2019
Instructor for laboratory section of Biol 1108 – Principles of Biology II

Bioinformatician (Faculty Research Associate - Forest Genetics)
Forest, Ecosystems, and Society, Oregon State University
March 2017 - August 2018
Worked with genetic researchers and the Pacific Northwest Tree Improvement Research Cooperative (PNWTIRC) to manage genomics and other forest genetics data. Processed and analyzed data using bioinformatic software. Wrote computer programs to analyze data using R, Perl, C#, and Java. Communicated research results orally and in writing and performed administrative duties as assigned.

Software Developer/Research Assistant
Center on Teaching and Learning (CTL), University of Oregon
April 2014 - March 2017
Designed and developed highly interactive, data-driven web applications and tablet-based instruction tools for the purpose of assessing and tracking student learning and the effectiveness

of curricular programs. Working closely with education researchers, communicated complex technical information to iteratively develop and test the effectiveness of these products on student learning. Designed, developed, and enhanced features within the existing data system (Dibels) to support integration with new instruction and assessment tools.

Worked in an agile team environment. Wrote code using JavaScript frameworks (AngularJS, EmberJS, ExpressJS, Bootstrap), PHP, MySQL, HTML, CSS). Extended existing data models and database systems to support new research and development activities. Wrote functional and unit tests, created documentation in tickets and a wiki, and managed code and release cycles using Git and SVN.

Web Manager
OSU Libraries & University Press, Oregon State University
August 2006 – May 2009; October 2010 – April 2014
Responsible for the web presence of OSU Libraries and Press, including web applications related to resource discovery and access, library instruction, digital collection creation, and supplementary sites for Press books.

Wrote code for websites and applications and customized existing proprietary and open-source applications. Administered, configured, and themed Drupal. Researched and recommended web applications, and assisted with implementation, administration, and maintenance as needed.

Worked with librarians to identify content and functional requirements. With stakeholder input, directed site architecture, functionality, and layout. Directed graphic design and worked to provide an integrated user experience across a variety of platforms and conducted usability testing.

Coordinated all aspects of the design and development process to meet deadlines. Researched techniques for content management, project management, design, accessibility, usability testing, and web analytics. Collaborated with content owners, managers, programmers, system administrators and graphic designers. Oversaw the work of student web developers and graphic designers. Provided training to non-technical staff.

Interim Department Head
Emerging Technologies and Services, Oregon State University Libraries
May 2009-October 2010
Managed a staff of six employees: two system administrators, three programmers, and a desktop support person. Prioritized and tracked the progress of departmental projects. Served on the Libraries' management team and participated in library reorganization and strategic planning. Implemented a ticket tracking solution and documentation policies and procedures. Continued to maintain many duties from the Web Manager position listed above.

Forestry Web Communications Coordinator
College of Forestry, Oregon State University
June 2003 – August 2006
Responsible for the design and development of the College of Forestry website and other related sites. Communicated standards to college web editors and provided training and resources. Responded to requests for programming or design assistance.

PUBLICATIONS

McEvoy, S. L., Sezen, U. U., Trouern-Trend, A., McMahon, S. M., Schaberg, P. G., Yang, J., ... & Swenson, N. G. (2021). Strategies of tolerance reflected in two North American maple genomes. *bioRxiv*.

Caballero, M., Lauer, E., Bennett, J., Zaman, S., McEvoy, S., Acosta, J., ... & Isik, F. (2021). Toward genomic selection in Pinus taeda: Integrating resources to support array design in a complex conifer genome. *Applications in plant sciences*.

Howe, G. T., Jayawickrama, K., Kolpak, S. E., Kling, J., Trappe, M., Hipkins, V., ... & McEvoy, S. (2020). An Axiom SNP genotyping array for Douglas-fir. *BMC genomics*, *21*(1), 1-17.

PRESENTATIONS & POSTERS

Botanical Society of America Virtual, 2021
Title: Genomic characterization and comparison of two maples highlights genes involved in the stress response to acidic soils

Forest Genetics Student and Postdoc Symposium Virtual, 2021
Title: Genomic characterization of two maples highlights genes involved in the stress response to acidic soils across seasons

EEB Graduate Symposium UCONN, 2021
Title: Sweet Genomes: Assembling, Annotating, and Comparing Three Maples

Botanical Society of America UCONN (remote), 2020
Title: Genomic characterization and comparison of two maples highlights genes involved in the stress response to acidic soils

EEB Graduate Symposium UCONN, 2020
Title: Sweet Genomes: Assembling, Annotating, and Comparing Three Maples

Plant & Animal Genome Conference XXVIII (oral & poster presentations) San Diego, CA, 2020
Title: Sweet Genomes: Assembling, Annotating and Comparing Three Maples

Evolution 2019 Providence, RI, 2019
Title: Sweet Genomes: Sequencing, Assembling, and Annotating Three Maples (poster)

ASPB Northeast Section Annual Meeting University of New Hampshire, 2019
Title: Sweet Genomes: Sequencing, Assembling, and Annotating Two Maples (poster)

EEB Graduate Symposium, UCONN, 2019
Title: Sweet Genomes: Sequencing, Assembling, and Annotating Two Maples (speed talk)

Plant & Animal Genome Conference XXVII San Diego, CA, 2019
Title: Sweet Genomes: Sequencing, Assembling, and Annotating Two Maples (poster)

Plant Biology Graduate Program University of Massachusetts Amherst, 2019
Title: Sweet Genomes: Sequencing, Assembling, and Annotating Two Maples (poster)

HONORS & AWARDS

EEB-MNH Botany Award 2021, University of Connecticut, Department of Ecology and Evolutionary Biology, $1500

2021 CFGA Carl Heimberger Award for Best Student Oral Presentation, Forest Genetics Student and Postdoc Symposium, $1000 CAD

The Arnold Arboretum of Harvard University, 2021 Sequencing Award, $9127

Botanical Society of America, Bill Dahl Graduate Student Research Award, 2020, $1500

EEB-MNH Botany Award 2020, University of Connecticut, Department of Ecology and Evolutionary Biology, $1500

University of Connecticut Institute for Systems Genomics, Linda D. Strausbaugh Fellowship in Genetics and Genomics, 2019, $1600

EEB-MNH Botany Award 2019, University of Connecticut, Department of Ecology and Evolutionary Biology, EEB-MNH Botany Award, $1500