

# Jordan A. Lee

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## EDUCATION

<b>Bioinformatics and Genomics Program</b> , Master of Science	Eugene, Oregon
• University of Oregon	Jun. 2018 - Present
<b>Aquatic and Fishery Science</b> , Bachelor of Science	Seattle, Washington
• University of Washington	Sept. 2011 - Jun. 2015
• <i>Research Scholar Distinction, Departmental Merit Distinction, and Dean's List</i>	

## SKILLS

<b>Biological Data Analysis</b>	<b>Highlighted Tools and Programs</b>
• RNA, protein, lipid	• Velvet assembler
• Single cell sequencing	• BLAST, GMAP-GSNAP, STAR
• Differential gene expression analysis	• FastQC
• Phylogenetic and molecular evolution	• Stacks
• Molecular marker and biomarker analysis	• GATK tools, SAMtools
• De novo genome assembly	• HTSeq
• Genome alignment	• Seurat
• Quality control of sequencing data	• DESeq, DESeq2
• Demultiplexing (wrote novel program)	• PhyML
• PCR de-duplication (wrote novel program)	• Slurm
• Analytical chemistry	
<b>Languages</b>	<b>Team Management Experiences</b>
• Bash	• Google
• Python	• University of Washington (UW)
• R	• Washington State Department of Ecology (DOE)

## WORK EXPERIENCES

<b>Single cell analysis of olfactory neuron development</b>	Eugene, Oregon
<i>In collaboration with</i> Stowers Institute for Medical Research	Sept. 2018 - Present
• Conducted molecular marker analysis for >4,500 cell expression profiles	
• Applied GATK tools to quality trim and clean Drop-seq scRNA-seq data (>950,000,000 reads)	
• Used dimensionality reduction techniques to cluster cells based on expression profile similarity	
• Problem-solved programming issues (e.g. bioinformatics tool pipelines)	
<b>Leadership and Google software development</b>	Bothell, Washington
Google, <i>Quality Assurance Specialist 2</i>	Nov. 2017 - Jun. 2018
Google, <i>Quality Assurance Specialist 1</i>	Feb. 2017 - Nov. 2017
• Wrote protocol pipelines that increased employee output and precision	
• Team manager when manager was out of office - duties included allocating tasks, monitoring team progress, resolving project questions or issues, and writing project reports	
• Worked closely with engineers, clients, and quality assurance team to develop, implement solutions, and maintain new and existing software	

**Lipid metabolism and energy flow within populations**UW, *Research Technician (2 labs)*

Seattle, Washington

Oct. 2015 - Aug. 2016

UW, *Research Assistant and Undergraduate Thesis Student*

Jan. 2014 - Oct. 2015

- Wrangled mass spectrometry data to identify structures and remove false positives
- Aided in developing innovative lab protocols that increased chemical purity and yield
- Tracked divisional research spending and performed cost analysis

**Neonicotinoid exposure and absorption for Washington State DOE**

Seattle, Washington

WA CFW Research Unit, *Data Collection Operations and Analysis Team Lead*

Jan. 2015 - Mar. 2015

- Led coordinated efforts of proposal submission, scheduling, and symposium preparation
- Quantified drug efficacy via chemical data analysis to identify best drug application method
- Interfaced with state agency for approval of methods and reporting results

**Population ecology studies**

Dillingham, Alaska

Alaska Salmon Program, *Undergraduate Researcher*

Mar. 2014 - Dec. 2014

- Applied mathematical model to predict population size and biological implications
- Conducted regression analysis and hypothesis testing

**Liquid chromatography coupled with mass spectrometry (LC-MS)**

Seattle, Washington

UW, *Research Assistant*

Jan. 2014 - Oct. 2015

UW, *Lab Assistant*

Apr. 2013 - Nov. 2013

- Mentored internal and external scientists to understand and integrate workflows
- Data wrangling of mass spectrometry data to remove false positives
- Facilitated communication between clients and internal scientists to analyze LC-MS

**PUBLICATION**

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**Lee, J.A.**, Vlah, M.J. and Holtgrieve, G.W. "Spatial and temporal interaction effects on lipid metabolism" (In preparation)

**RESEARCH FUNDING**University of Washington Faculty Merit Award - **\$500**

2015

- *A highly competitive award given annually to 1-2 undergraduates who were nominated by faculty members and evaluated by a committee.*
- **Selection criteria:** *service to the university, contribution to scientific research, and academic merit*

Mary Gates Endowment: Research Scholar - **\$4K**

2014 - 2015

- *Bill Gates and Melinda Gates established the Endowment in honor of Bill's mother and its purpose is to invest in student leadership and research. This is UW's largest endowment for undergraduate scholarships and requires a research proposal written by the student.*
- **Selection criteria:** *leadership, rigor, research description, and impact to the scientific field*

University of Washington Department Award - **\$1K**

2014 - 2015

- *This is a competitive award to fund student research performed at the University of Washington and requires a research proposal written by the student.*
- **Selection criteria:** *impact to the University of Washington, research description, academic performance, itemized expenses, and research timeline*