# Breanna Moore

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## Objectives

Dedicated and motivated professional who seeks to gain experience working in computer science related fields. I am open to pursuing any role, but would be most interested in roles that leverage my experience as a scientist and my knowledge of the scientific process and practices. I am a successful scientist and an excellent student who is highly organized, precise, technically savvy, and skilled at problem solving, and multitasking. I'm excited to join a company that will allow me to continually increase my technical and programming skills and challenge myself to further develop my professional and personal education through multifaceted roles.

## Summary of Skills

### Languages

Familiar with intermediate concepts for Python, Visual Basic, and Java languages. Some experience with x86 Assembly, HTML, CSS, and JavaScript.

### Tools

Proficient with productivity software including Microsoft Office Suite, Adobe Photoshop, ImageJ, GraphPad Prism, and Adobe Illustrator. Familiar with Visual Studio, Pycharm, Netbeans, Git, and Github.

## Education

**Oregon State University, Corvallis, OR** **June 2020 – April 2022**
Bachelor of Science in Computer Science GPA 4.0

**Edmonds Community College, Edmonds, WA** **September 2019 – April 2020**
Associate in Computer Science GPA 3.92

**University of Washington, Seattle, WA** **June 2010 Graduate**
Bachelor of Science in Biology: Molecular, Cell and Development
Minor in Chemistry

## Professional Experience

**Fred Hutchinson Cancer Research Center** **August 2015 – September 2019**
Lab Manager/Research Technician II, Cheung Lab

- Worked with principal investigator to start up a brand new lab focused on studying breast cancer metastasis and the mechanisms behind collective cell invasion.
- Responsible for maintaining lab equipment, placing orders, and training new hires.
- Conducted experiments to discover proteins important for luminal signaling and formation in mouse tumor organoids, primary tumor, and normal, primary mammary tissue.
- Designed and performed *in vitro* & *in vivo* experiments and revised or created lab protocols. Experimental, technical, and optimization work has been key to new funding sources and novel discoveries that have advanced laboratory focuses.
- Maintain mouse colony which includes setting breeder cages for several transgenic strains, ear tagging and genotyping litters, and monitoring mice for mammary tumors.
- Proficient with confocal microscopy, image analysis, immunofluorescence, mouse necropsy and survival surgeries, cryostat sectioning, tissue culture, flow sorting, qPCR, and lentiviral transduction.

**Unigen** **March 2013 – August 2015**
Research Associate, Pre-Clinical Department

- Performed *in vivo* studies with rodents for safety and efficacy studies. Tasks include blood draws, organ collection and preparation for histology, monitor and record clinical signs, and administration of treatments via oral gavage and IP/SQ injections.
- Conducted *in vitro* assays including ELISA, tyrosinase inhibition, and lipase activity.
- Assisted with preparing and organizing lab budgets, project cost estimates, searching for scientific literature, and manuscript writing.
- In charge of organizing and maintaining shared file system, ordering animals, performing all animal husbandry tasks, and ensuring all laboratory supplies are ordered and received.
- Responsible for maintaining chemical inventory logs, preparing laboratory stock solutions, cleaning and sterilizing the procedure room, animal facility, and glassware.
- Responsible for maintaining the colony of chickens for research use. Set up incubation of fertilized eggs, moved and tagged new hatchlings to brooders daily, and monitored animal room and incubator temperature and humidity.
- Prepared stock solutions for histology use including buffers, fixatives, and sterile solutions.
- Primed stained microscope slides for tissue mounting, cleaned laboratory glassware, and organized the chemical cabinets and inventory lists.

## Publications

Wrenn E.D., Yamamoto A., **Moore B.M**., *et al*. "Regulation of collective metastasis by nanolumenal signaling." *Cell* (2020).

Wrenn E.D., **Moore B.M.**, *et al*. "Optimal, large-scale propagation of mouse mammary tumor organoids." *Journal of Mammary Gland Biology and Neoplasia*, submitted and under review.