First Last Name

Ames, IA 50011

xxx-xxx-7781 [xxxxxxxx@gmail.com](mailto:xxxxxxxx@gmail.com) [www.linkedin.com/in/xxxxx](http://www.linkedin.com/in/xxxxx) GitHub

**Professional summary**

* Molecular geneticist with over 2 years of experience in immunology and statistics
* Diversely trained to perform both wet-lab techniques and bioinformatics analyses
* Published 2 of 7 manuscripts in peer-reviewed journals
* Successfully collaborated with colleagues from diverse cultures as Graduate Student Senator
* Directed technical and scientific consulting for industry and academia
* Ability to write scientific code with multiple languages: R, Python, Linux, and SAS

**TECHNICAL and LABORATORY SKILLS**

**Numerical and Data Analysis**: MATLAB, Python, Tensor Flow, R, JMP, Julia

**Programming Language**: C, C++, Java, Android, Python, 8086 Assembly Language

**Simulation**: Proteus, Circuit Maker, Packet Tracer

**Structure Design:** AutoCAD, Microsoft Visio

**Miscellaneous:** Code Blocks, Eclipse, Android Studio, Perforce, LaTeX, GitHub, Slack, ZOOM

**EDUCATION**

Iowa State University (ISU), Ames, IA January 2020-December 2022

Doctor of Philosophy, Ph.D., Genetics

Iowa State University (ISU), Ames, IA January 2020-December 2022

Master of Science, M.S., Genetics

**Loras College, Dubuque, IA August 2015-December 2019**

Bachelor of Science, B.S., Biological Research, Secondary Education Endorsement

**Experience**

**Molecular Biology Department, Iowa State University, Ames, IA August 2020-Present**

**Molecular Biologist Graduate Research Assistant**

* Applied ~10 computational programs in an RNA-seq pipeline to analyze sequencing data for differential expression and co-expression analyses
* Analyzed 200+ data sets utilizing R, JMP, and SAS
* Mentored 3 undergraduate students and 2 graduate scholars
* Wrote 5 technical manuscripts for publication in peer-reviewed journals, 4 animal industry reports, and over 15 abstracts for international conferences
* Reviewed 2 manuscripts for The Journal of Molecular Immunology

**Department of Plant Pathology and Microbiology, ISU, Ames, IA January 2020-July 2020**

**Plant Breeding Graduate Research Assistant**

* Led a group of 8 researchers in designing 20+ field experiments for planting & breeding
* Prepared fungal inoculum, applied it on 1,600 ~~maize~~ plant lines, collected phenotypic data, and analyzed data using SAS
* Trained 5 colleagues on fungal inoculum application and phenotypic data collection
* Conducted agrobacteria-mediated transformation of 16 ~~maize~~ plant genes
* Managed 600 greenhouse-grown transgenic maize from plantlets to harvest
* Amended protocol for the management of greenhouse-grown transgenic plants
* Mentored and supervised 12 students in managing laboratory, greenhouse, and field experiments
* Phenotype ~~maize~~ plant lines affected by western corn rootworm
* Extracted plant RNA and DNA, designed primers, conducted PCR and gel electrophoresis

**Elanco, Germany August 2014-May 2016**

**Business Associate of Analytical Science & Technology**

* Optimized and increased throughput of an ELISA protocol to quantify vaccine titer
* Gained experience working in a GMP environment
* Wrote standard operating procedure and project report

**Department of Plant Pathology and Microbiology, ISU, Ames, IA January-May 2014**

**Genetics of Biology Teaching Assistant**

* Collaborated writing syllabi for ~25 undergraduate students
* Developed and graded homework assignments and projects
* Clarified course objectives and graded assignments
* Taught 2 class sessions and led 3, 2-hour review sessions

**LEADERSHIP AND SERVICE EXPERIENCE**

**Graduate and Professional Students Senate (GPSS)**, **ISU, Ames, IA** **August** **2020-May 2021**

**Senator**, **Genetics Department**

* Communicated relevant information from Senate meetings to department faculty and students
* Conducted Senate elections as Elections and Operations Committee Co-Chair
* Promoted and publicized 18 conference events - Public Relations Committee Chair

**Bioinformatics Graduate Student Organization, ISU, Ames, IA August 2018-May 2020**

**Executive Board Member**

* Brainstormed ideas to promote bioinformatics research
* Organized two, 1-day computer language workshops

**Indian Students’ Association, ISU, Ames, IA August 2018-May 2019**

**Public Relations Officer**

* Presented strong conversational and marketing skills by securing 4 event sponsors and publicizing 20 events
* Association awarded ‘Best Organization of the Year’ by International Students’ and Scholars Office

**SELECT PUBLICATIONS** (1 of 3)

* **Last, X. Y.** & Name, H.-H. Rational Design of High-Number. *PLoS One* **10,** e0145682 (2019).

**SELECT HONORS AND GRANTS** (1 of 7 honors/grants)

* Center for Excellence in and Learning and Teaching (CELT) grant, ISU ($5,000) **2019**

**PROFESSIONAL ASSOCIATIONS**

National Animal Breeding & Genetics Association **-** Member **2017-Present**