

Syed Hussain Ather

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Research Experience

- **National Institutes of Health**
Post-baccalaureate Researcher
06/2018 – 05/2019
Bethesda, MD
Advisers: Sinisa Pajevic, Harold Burgess
 - **National Institutes of Health**
Bioinformatics Trainee
06/2017 – 05/2018
Bethesda, MD
Advisers: Ryan Dale, Elissa Lei
 - **Indiana University-Bloomington**
Bioinformatics Undergraduate Research Assistant
09/2013 – 05/2017
Bloomington, IN
Adviser: Matthew Hahn
 - **Conte Center for Computational Neuropsychiatric Genomics**
Undergraduate Research Intern
06/2015 – 07/2015
Chicago, IL
Adviser: Chunyu Liu
 - **Indiana University-Bloomington**
Physics Undergraduate Research Assistant
09/2014 – 05/2015
Bloomington, IN
Advisers: Adam Szczepaniak, Geoffrey Fox
 - **Boyce Thompson Institute**
Undergraduate Research Intern
06/2014 – 07/2014
Ithaca, NY
Adviser: Zhangjun Fei
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Publications

- Ather, S. H., Awe, O., Butler, T. J., Denka, T., Semick, S., Tang, W. (2018) SeqAcademy: an educational pipeline for RNA-Seq and ChIP-Seq analysis. In *F1000Research*.
 - Thomas, G., Ather, S. H., Hahn, M. (2016) Gene-tree reconciliation with MUL-trees to resolve polyploidy events. In *Proceedings of the National Academy of Sciences*.
 - Ather, S. H., Zheng, Y., Fei, Z. (2014). RNA-Seq Analysis of lncRNAs and cisNATs in tomato ripening. In *Indiana University Journal of Undergraduate Research*, 1, 34.
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Awards

Rosalind Bioinformatics Contest Finalist, 2019.
Rosalind Bioinformatics Contest Finalist, 2018.
National Association of Science Writers Undergraduate Travel Fellow, 2017.
Second place in Biological Sciences at Emerging Researchers National Conference in STEM, 2016.
Honorable Mention, Academic Excellence, Indiana University-Bloomington Department of Philosophy, 2016.

Workshops

Lattices: Algorithms, Complexity, and Cryptography Boot Camp, Simons Institute for the Theory of Computing, 2020.
Data Science Hackathon, National Institutes of Health, 2018-2019.
Brainhack, 2018-2019.
Mathematics of Vision, University of Toronto, 2019.
Large Scale Simulations and Data Processing, Society for Neuroscience, 2019.
Diving DEAP into Adolescent Brain Cognitive Development (ABCD) Study Data workshop, Society for Neuroscience, 2019.
Modeller's Workshop for the Brain Dynamics Toolbox, 2019.

Technical Experience

Programming Languages: Python, R, Perl, MATLAB, Haskell, Unix, HTML, CSS, C, LaTeX, SQL, XML.

Natural Languages: Fluent in English, advanced in Spanish, Urdu, and Arabic.

Research Software: BioPython, BluePyOpt, Brain Dynamics Toolbox, Bokeh, CAFFE, Conda, Django, eFEL, Elephant, Flask, GEKKO, ggplot2, Keras, DescriptionMatplotlib, Neo, Neurodynex, NEURON, NiBabel, Nitime, NLTK, pandas, PsychoPy, pygame, PySqlite, PyTorch, qutip, RStan, scikit-learn, scipy, seaborn, SimPy, Slurm, Snakemake, statsmodels, SymPy, TensorFlow, XGBoost.