

Syed Hussain Ather

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Research Experience

- **University of Toronto** **Toronto, ON**
Ph.D. student, Medical Science
02-2020 – Present
Adviser: John Griffiths
 - **Google Summer of Code, International Neuroinformatics Coordinating Facility (INCF)** **Stockholm, Sweden**
Summer intern (remote)
05/2020 – 09/2020
Advisers: John Griffiths, Rick Gerkin
 - **National Institutes of Health** **Bethesda, MD**
Post-baccalaureate Researcher
06/2018 – 05/2019
Advisers: Sinisa Pajevic, Harold Burgess
 - **National Institutes of Health** **Bethesda, MD**
Bioinformatics Trainee
06/2017 – 05/2018
Advisers: Ryan Dale, Elissa Lei
 - **Indiana University-Bloomington** **Bloomington, IN**
Bioinformatics Undergraduate Research Assistant
09/2013 – 05/2017
Adviser: Matthew Hahn
 - **Conte Center for Computational Neuropsychiatric Genomics** **Chicago, IL**
Undergraduate Research Intern
06/2015 – 07/2015
Adviser: Chunyu Liu
 - **Indiana University-Bloomington** **Bloomington, IN**
Physics Undergraduate Research Assistant
09/2014 – 05/2015
Advisers: Adam Szczepaniak, Geoffrey Fox
 - **Boyce Thompson Institute** **Ithaca, NY**
Undergraduate Research Intern
06/2014 – 07/2014
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.

Technical Experience

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

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

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