PARHAM KAZEMI

pkazemi@bcgsc.ca linkedin.com/in/p-kazemi github.com/parham-k

EDUCATION

PhD in Bioinformatics - University of British Columbia 2021 - Present

- Supervised by Dr. Inanc Birol
- Member of the Bioinformatics Technology Lab at BC Cancer's Genome Sciences Centre

MSc in Computer Engineering (AI) - University of Isfahan 2019 - 2021

- Supervised by Dr. Hossein Karshenas
- Thesis: Deep Reinforcement Learning for Training Intelligent Agents in Natural Language Environments
- GPA: 18.42/20

BSc in Computer Engineering (Software) - University of Isfahan 2015 - 2019

- Supervised by Dr. Afsaneh Fatemi
- Thesis: Predicting Persian Twitter Users' MBTI Personality Using Text Mining Methods
- GPA: 18.25/20
- Received CEng Faculty's Distinguished Student Award
- Participated in ICPC West Asia Regionals (2016, 2017 ranked 16th)
- Participated in Robocup IranOpen 2D Soccer Simulation League 2017
- Participated in National Computer Engineering Olympiad Finals

EXPERIENCE

Graduate Research Assistant - Canada's Michael Smith Genome Sciences Centre 2021 - Present

Teaching Assistant - University of Isfahan 2016 - 2020

- Courses: *Artificial Intelligence, Algorithm Design, Data Structures and Algorithms, Advanced Programming, Computer Fundamentals, Discrete Mathematics, Technical English*

ACM Students Chapter Member - University of Isfahan 2017 - 2019

- Coached teams selected for ICPC West Asia Regionals 2020
- Problem creator for University of Isfahan's annual high-school students' programming contest
- Technical committee member for University of Isfahan's AI challenges
- Python course instructor
- Presenter at University of Isfahan's research week 2020 on NLP

PUBLICATIONS

scholar.google.com/citations?user=-X4UY5QAAAAJ

Nikolić, V., **Kazemi, P.**, Coombe, L., Wong, J., Afshinfard, A., Chu, J., Warren, R. L., & Birol, I. (2022). btllib: A C++ library with Python interface for efficient genomic sequence processing. Journal of Open Source Software, 7(79), 4720. https://doi.org/10.21105/joss.04720

Kazemi, P., Wong, J., Nikolić, V., Mohamadi, H., Warren, R. L., & Birol, I. (2022). ntHash2: recursive spaced seed hashing for nucleotide sequences. Bioinformatics, 38(20), 4812–4813. https://doi.org/10.1093/bioinformatics/btac564

Kazemi, P., & Karshenas, H. (2021). Fuzzy Word Sense Induction and Disambiguation. IEEE Transactions on Fuzzy Systems, 30(9), 3918–3927. https://doi.org/10.1109/tfuzz.2021.3133905

PRESENTATIONS

Kazemi, P., Mohamadi, H., Chu, J., Coombe, L., L Warren, R., & Birol, I. (2023). ntHits: streaming through raw sequencing data to profile and filter k-mers with selected multiplicities. Poster in the 13th RECOMB Satellite Conference on Biological Sequence Analysis.

OTHER PROJECTS

University of Isfahan's Alumni Social Website - Backend Developer (Django)

SKILLS & INTERESTS

- Programming Langauges: Python, C++, Java
- Deep Learning: Keras, PyTorch, Hugging Face Transformers

- Others: Linux, LaTeX, Git
- Keywords: `Bioinformatics`, `De novo Genome Assembly`, `Natural Language Processing`, `Software Engineering`, `Machine Learning`