

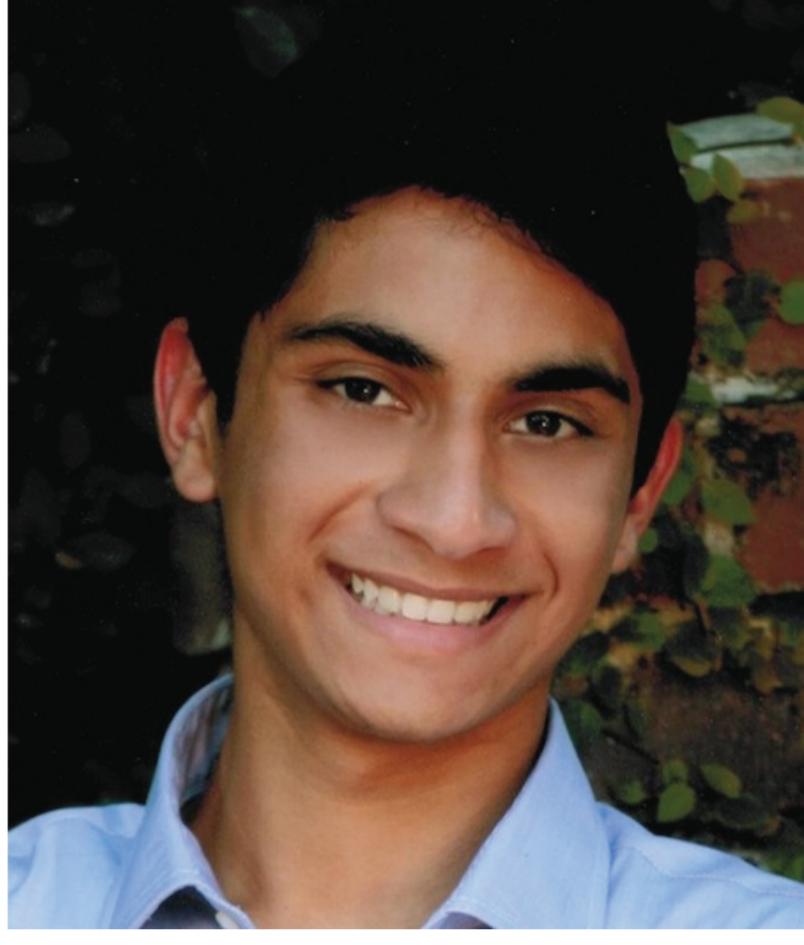
Jacob Elnaggar

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About



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Resume

Professional Experience

Baylor University, Waco, TX

Bioinformatics Capstone Project, August 2017 – December 2017

- Worked with Erich Baker, PhD, on his bioinformatics website, Genewaver.org
- Created an algorithm for users to compare multiple gene interaction networks, allowing biologists to discover underlying patterns in a specific disease
- MD ANDERSON CANCER CENTER, HOUSTON, TX Independent Researcher in Bioinformatics/Computational Biology Department, June 2017 – August 2017
- Internship at the number one cancer research center in the world
- Implemented a computational model that analyzes cancer biopsies and nominates treatment therapies
- Used my combined knowledge of computer science and cancer biology
- Advanced network modeling and machine learning

Baylor Scott & White Medical Center, Waco, TX

Consultant, January 2017 – May 2017

- Worked in a team to create a database for the hospital
- Designed to store procedure information for a patient before, during, and after each operation
- User-friendly website as the front end
- Created this using MySQL, PHP, Java Script, and HTML
- LSU HSC BIOINFORMATICS, NEW ORLEANS, LA Bioinformatician and Data Analyst, June 2016 – August 2016
- Research internship at LSU Health Science Center
- Worked in the Bioinformatics and Genomics program
- Analyzed large sets of patient data for genomic patterns in breast cancer
- Curated a manuscript from the findings that is being published

Software Engineering, Baylor University, Waco, TX

Created an RFID system for an ENT clinic, August 2016 – December 2016

- Worked in a team to create a system that utilizes RFID readers in a Head and Neck Surgery clinic
- Part of a Scrum Team
- Created this system using Java and multithreading

LSU HSC, New Orleans, LA

Researcher in Physiology Department, June 2015 – August 2015

- Research internship at LSU Health Science Center in the Physiology department
- Mapped protein expression in Rhesus Macaque prefrontal cortex to model the effect of combined stimuli using network modeling

Education

Baylor University, Waco, TX

2014-2018

BS in Bioinformatics 3.9 GPA (Dean's List)

Relevant course work

- Datamining • Software Engineering • Biochemistry
- Machine Learning • Data Structures • Algorithms
- Database Design & Application • Organic Chemistry Skills and Abilities Technology
- Python • C++ • Java • R • SQL
- Java Script • HTML • Assembly • CSS • C
- PHP • Bash
- Visual Studio, Vim, Eclipse, RStudio, Git, IntelliJ, PyCharm
- Windows OS, Mac OS, Linux OS (Ubuntu & Red Hat)

Extracurricular Organizations

- Association of Bioinformatics and Biotechnology Vice President. ABB is an academic club designed for bioinformatics students and students who are interested in the fields of bioinformatics and biotechnology.

- Baylor Medical Ethics Discussion Society Service Officer. I lead volunteer events in the Waco area, including Mission Waco, and I help our members get involved with service.

- Computer Science/Bioinformatics tutor/mentor I tutor and mentor freshman Bioinformatics students during their first year at Baylor University.

Contact

(504) 982-8686

elnaggarj96@gmail.com

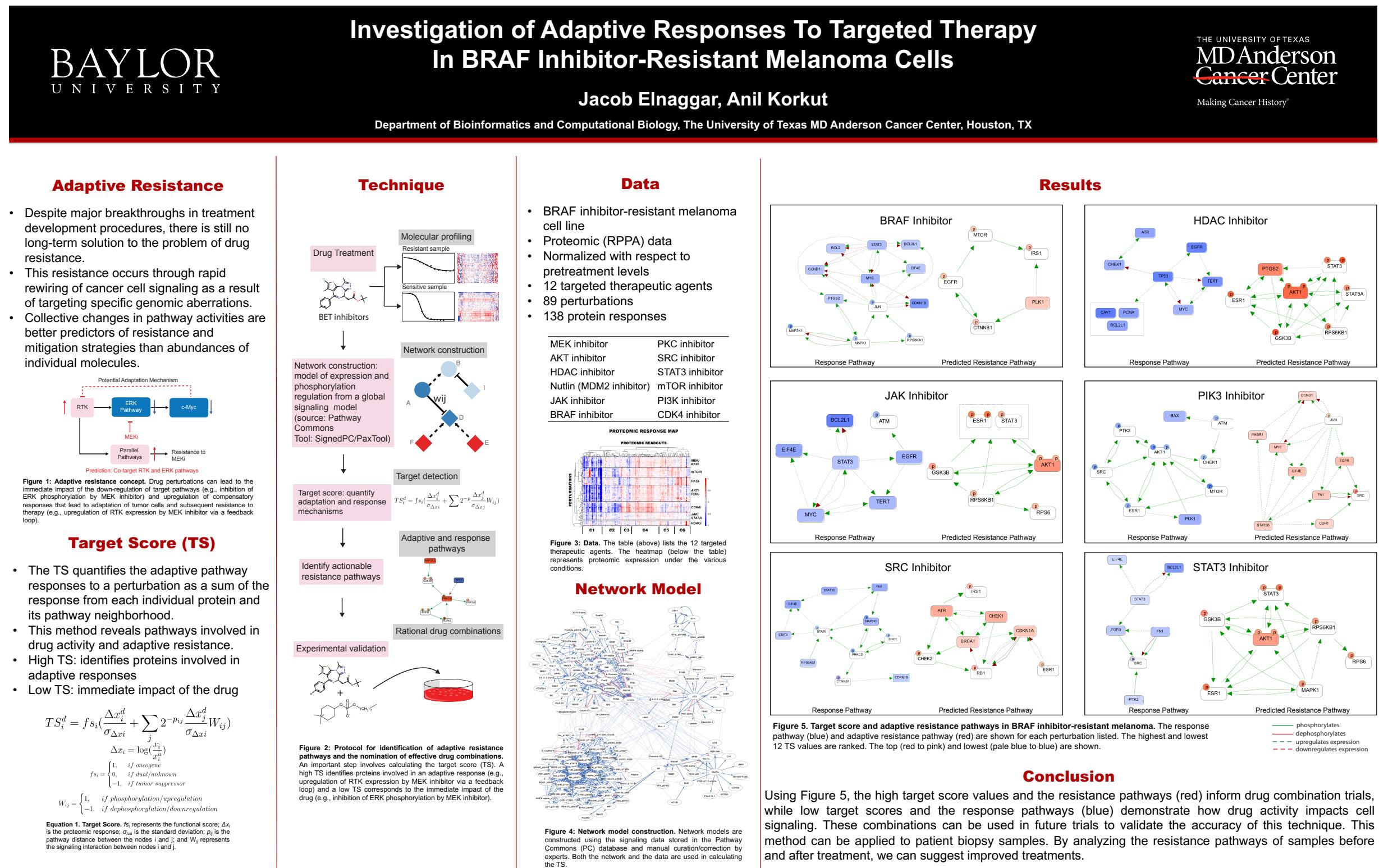
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Unit 5303, Waco, TX 76706

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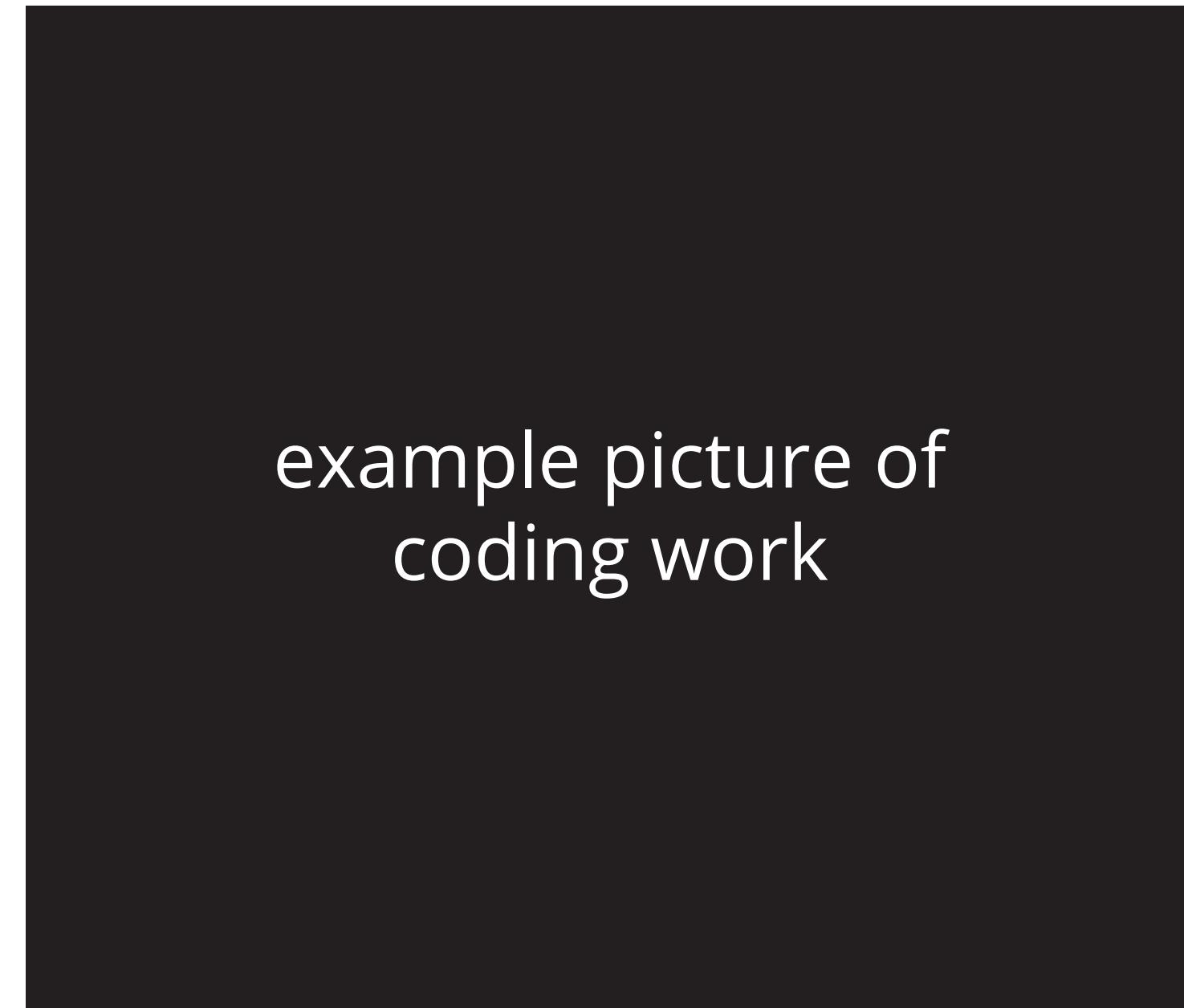


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coding work

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