Damian Jimenez

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Education

Ph.D. Computer Science	**4.0 GPA**
The University of Texas at Arlington	Spring 2021 (Projected)
BS Computer Science	**3.761 GPA**
The University of Texas at Arlington	Spring 2017
BS Human Biology: Pathogenesis and Immunity	
The University of Texas at Austin	May 2013

Knowledge and Experience

UT Arlington - Research Experience

Automated Fact-checking

HeroX Challenge   Fall 2016

- Contributed to the Fast & Furious Fact Check Challenge sponsored by HeroX with a team from the lab group, the goal of which was to create an automated fact-checking system that could check different types of claims. It made use of the query answering system I had previously worked on, and I contributed to the design of the system's architecture and integration of other modules with the final system.

ClaimBuster API & Slack App   Fall 2016

- ClaimBuster API development and Slack integration via a chatbot. Developed a basic Restful API for the ClaimBuster platform, and integrated the API into a Slack chatbot that responded to slash commands.

Claim to question conversion   Summer/Fall 2016

- Using NLP tools such as AlchemyAPI and WordNet, I explored different methodologies for extracting information from claims. Using a question generation system claims could then be queried using knowledge graphs or existing databases, and a conclusion to the veracity of the claim was made. Ran several experiments to assess the overall viability of the tool over various data sets.

Fact Checking with Freebase   Spring 2016

- Wrote queries in MQL to test whether factual statements could successfully be verified using a knowledge graph such as Freebase. Learned about the advantages of knowledge graphs and their properties within the context of fact checking.

Angle of Repose of Powders   Fall 2012

Helped with constructing a setup to effectively track the angle of repose of different variations of lactose. Tracked the compression level of powders using image analysis, and made a GUI for the script using the PyQt toolkit.

Artificial Lung Project   Fall 2012

Helped with building a rudimentary lung to simulate breathing patterns. Researched different methods to control a stepper motor using a Python/Arduino interface to simulate a lung breathing via the opening and closing of a valve.

Extracurricular/Achievements

REU Participant   Summer 2016

- Received funding for working in research projects sponsored by the NSF.

Dean's List (College of Engineering)   Spring/Fall of 2015 & 2016, Spring 2017

- In recognition for maintaining a GPA above 3.75.

HackDFW   Spring 2016

- Participated in the hackathon with MOBI (mobile development club).

NBA Hackathon   Fall 2016

- Attended the hackathon with a group from the IDIR Lab, had to be selected through an initial screening to be able to attend the event.

Publications

1 D. Jimenez. Towards Building an Automated Fact-checking System. *SIGMOD SRC '17: Proceedings of the 2017 ACM International Conference on Management of Data*. Chicago, IL, USA. May 2017.

2 N. Hassan, G. Zhang, F. Arslan, J. Caraballo, D. Jimenez, S. Gawsane, S. Hasan, M. Joseph, A. Kulkarni, A. K. Nayak, V. Sable, C. Li, M. Tremayne. ClaimBuster: The First-ever End-to-end Fact-checking System. *Proceedings of the VLDB*. Munich, Bavaria, Germany. August 2017.