

## Jonatan M. Contreras

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<b>Education</b>	University of Texas at El Paso PhD in Computer Science	August 2020 -- Present
	University of Texas at El Paso Master of Business Administration with a focus in Marketing Cum Laude	May 2018
	University of Texas at El Paso Bachelor of Arts in Psychology, minor in Philosophy undergraduate honor's thesis: "2D:4D Indicators of Testosterone Moderate Persuasion Tactics among Machiavellians"	May 2015
<b>Research Experience</b>	Constraints Research and Reading Group UTEP Project: Bias in Neural Networks Exploring neural networks to understand their role in the propagation of bias in machine learning informed decision making. Research Supervisor: Dr. Martine Ceberio, CS Department, UTEP, email: <a href="mailto:mceberio@utep.edu">mceberio@utep.edu</a>	Fall 2020 – Present
	Interactive Systems Group UTEP Project: Patterns of Interactional Prosody in Youth with and without Autism Processed audio from interviews with youth of respective populations mentioned and used machine learning techniques to find unexpected differences in the prosody of autistic children when compared to the prosody of neurotypical children. Research Supervisor: Dr. Nigel Ward, CS Department, UTEP, email: <a href="mailto:nigel@utep.edu">nigel@utep.edu</a>	Summer 2020 – Fall 2020
	UTEP NSF IRES Smart Cities Research Experience UTEP Researcher & Programming Lead Lead the programming team in creating a mobile app that accessed database information using Android Studio, JavaScript, and MongoDB. Developed a "Known Danger" Index to indicate dangerous areas on a map for app users.	Summer 2020

**Work Experience** Teaching Assistant – Introductory Data Structures Fall 2020 – Present  
Prepare materials for lecture

Aid students during lecture  
Proctor Lab sessions and workshops  
Hold office hours  
Grade labs and homework assignments

Miner Athletic Academic Center, UTEP Fall 2017 – Fall 2020  
Mathematics Tutor  
Aided students in daily mathematics coursework  
Helped students develop study skills, time management skills, and interpersonal skills.

### **Publications**

Ward, N., Contreras, J. M., and Lehnert-Lehouillier, H. "Patterns of Interactional Prosody in Youth with and without Autism" (pending publication). In *Proceedings For the 20<sup>th</sup> Conference of International Society for Autism Research (INSAR 2021) (2021)*.

Smith, N. A., Camacho, A. C., Escobedo, E. J., Contreras, J. M., Mondragon, O., Villanueva-Rosales, N., ... & Larios, V. M. "A Safety Index for Smart Mobility using Real-Time Crowdsourced Data." In 2020 IEEE International Smart Cities Conference (ISC2) (pp. 1-8). IEEE.

Contreras, J., Zapata, F., Kosheleva, O., Kreinovich, V., and Ceberio, M. "Let Us Use Negative Examples in Regression-Type Problems Too", Proceedings of the 24<sup>th</sup> International Conference on Information Visualisation IV'2020, Vienna and Melbourne, September 7-11, 2020, pp. 296-300.

### **Relevant Coursework**

Intro to Computer Science  
Introductory Data Structures  
Data Structures  
Advanced Object-Oriented Programming  
Speech and Language Processing  
Machine Learning  
Computer Vision  
Parallel Computing

### **Skills**

Proficient in Java  
Proficient in Python  
Familiar with C  
Familiar with MatLab  
Spanish – Native Speaker