

First name(s)/Surname(s)

Rebecca



Website
LinkedIn
GitHub

greedykruskal.me
<https://www.linkedin.com/in/greedykruskal/>
<https://github.com/bikegirl>
<https://github.com/Penn-TopGuNN/TopGuNN>

Education

Graduate

University of Pennsylvania
MS Computer Science - May 2020
MSE Computer Science – EGD 12/21
Advisors: Dr. Chris Callison-Burch, Dr. Arvind Bhusnurmath

Undergraduate

Texas State University
BS Chemistry
Austin Community College
AS Computer Science
AA Spanish Foreign Language

Research Interests
Current Projects

Cross- and Multi-lingual Information Retrieval, Knowledge Acquisition Systems, Narrative Event Schemas. DARPA KAIROS, IARPA BETTER (USA National Defense & Security)

Internships

John Hopkins University Mini-SCALE Hackathon January 11-22, 2021
John Hopkins Human Language Technology Center of Excellence June 1-Aug 6, 2021

Current Publications
(Computer Science)

Iglesias-Flores Rebecca* et al. *TopGuNN: Fast NLP Training Data Augmentation using Large Corpora*. NAACL DaSH-LA 2021. <https://www.aclweb.org/anthology/2021.dash-1.14/>

Kriz, R., *, Miltakaki, E., **Iglesias-Flores, R.**, Mishra, M., and C. Callison-Burch. *Recasting Text Simplification as a Document Retrieval Task*. 2020. arXiv EMNLP 2020.

Ji, C., Dean, J.L., **Iglesias-Flores, R.A.**, and S.M. Boisvert, “Quantitative Determination of Co-Eluting Compounds by Using Extract Ion Chromatogram in GC–MS,” *Chem. Educator*, in press.

Academic Achievements

Awarded **NCWIT Collegiate Finalist** for excellence in PhD Research - 2019
Awarded **NSF GRFP** out of **12,000** applicants - 2018
Selected for **NanoCER Summer REU** at UCLA out of **110** applicants
Awarded the **NASA RGSFO Internship** as a Zero-g flyer to ride the “Vomit Comet”
MAES in Las Vegas – **3rd Place** Research Poster Competition
Featured as **Texas State Rising Star** out of the entire University for NASA research

Volunteer

West Philly Tutoring Project –Tutor, Mentor	Redefine() – URM Tutor, Mentor
Girls Who Code –Tutor, Mentor	UPenn Applicant Support Program – URM Mentor
Penn Emerging Scholars Program –Tutor	Jewish Grad Network – Israel Fellow
	Bair Foundation - Licensed Foster Parent

Technical Skills

Python, C++, C, SQLDict, Numpy Memmapping, Database Frameworks (SPARQL, SQL), Information Retrieval Frameworks (Lucene/Indri Search, Anserini), Language Modeling tools (BERT, GPT-2, etc), NLP Analysis tools (NLTK, AllenNLP, Vector Space Models), Machine Learning Frameworks (Pytorch, Tensorflow, Scikit-Learn).

Relevant Courses

Computer Architecture – CS591	Language Modeling Story Generation – CS700
Set theory/Combinatorics – CS592	Artificial Intelligence – CS521
Data Structures – CS594	Machine Learning – CS520
Algorithms – CS596	Databases – CS550
Internet Web Systems – CS595	Advanced Internet Web Systems -CS555

Work History 7+ years

2016-2018	DSHS, Newborn Screening. Industry <i>Govt. Healthcare and Social Services</i> Position Held Medical Technologist IV	2013-2014	Asuragen, Inc. Industry <i>Medical Devices</i> Position Held Quality Control Analyst II
2015-2016	Everyday Minerals, Inc. Industry <i>Cosmetics</i> Position Held QA Director	2010-2012	Grifols, Inc. Industry <i>Pharmaceutical</i> Position Held QA Technician II
2014-2015	Genesis Today, Inc. Industry <i>Food & Beverage</i> Position Held Program Manager	2006-2007, 2010	Health & Human Services Industry <i>Govt. Health & Social Services</i> Position Held Texas Works Advisor II, IV

Work Experience Details

History of Qualifications

- Bilingual, Spanish & English. Fluency Level: Expert interpreter.
- 7 yrs. of Quality experience in cGMP-regulated facilities, emphasis in Audit Preparation.
- 6 years of management and training experience, including supervising up to 22 people
- 4 Years of paid chemistry research experience in Organic, Analytical, and Electro -Chemistry:
- Texas State Rising Star: http://www.txstate.edu/news/news_releases/news_archive/2009/03/NASA030909.html

DSHS, NBS.

Industry

2016-2018
Healthcare and Social Services

Position Held

Medical Technologist IV: Galactosemia & Biotinidase Screening Team

Main activities and responsibilities

- Serving as an authority and role model, responsible for monitoring staff and training personnel.
- Performing complex fluorometric/colorimetric assays for newborn screening.
- Technical writing: developing and updating SOP procedures and Validations.

Notable Achievements

- ☆ Streamlined releasing process through SOP development and new validation and technical writing for new GSP platform

Everyday Minerals, Inc.

Industry

2015-2016
Cosmetics

Position Held

Director of Quality

Main activities and responsibilities

- Audit Preparation and cGMP gap analysis and risk assessment for cosmetics and skin care.
- Managing Document Control, Finished Product, and Stability Programs.
- Developing new team members and detailing their progress in each area of training.
- Creating and structuring the following programs: Supplier Qualification, Raw Material, Retain, Shelf-life Extension, Safety Trending, Skip-Lot Testing, and Metrology.
- Expert in Cosmetic Chemistry Theory and ISO test methods for appropriate testing application.
- Proficient knowledge of regulations associated with the cosmetic industry, including: The Cosmetics Regulation 1223/2009, Cosmetics Directive 76/768/EEC, ICCR, GMP ISO 22716, 21 CFR 73, 74, and 82, 21 CFR 700, 710, 740.11, 740.12 and 740.17.
- ☆ Building several programs in order to fill gaps in processes and company policy
- ☆ Skip-Lot Testing Program, saving hundreds of thousands of dollars in yearly revenue

Notable Achievements

Genesis Today, Inc.

Industry

2014-2015
Food Beverage and Dietary Supplements

Position Held

Program Manager

Main activities and Responsibilities	<ul style="list-style-type: none"> ➤ Audit preparation and response; Audit host and SME, including: Intertek, ISO, NSF, and FDA. ➤ Document control/technical writing: SOPs, NCRs, CAPAs, CPAs, Policies, Forms, Protocols, etc. ➤ Customer Complaint Program Manager for US & Canada. ➤ QC testing for raw materials & finished product: Identity, quality, potency, purity, & strength. ➤ Proficient in PMP principles: Idea/Initiation Phase, Creative Rendering, Formulation & Execution, On-going training (continuous improvement), Annual Review, etc. ➤ Proficient Knowledge of regulations associated with Food Beverage & Dietary Supplements, including: ISO 9000 family, ISO 13485, 21 CFR 11, 110, 111, 120 and 820
Notable Achievements	☆ Expert in Excel: Creator of safety trending database for label claim and food safety compliance
Asuragen, Inc.	2013-2014
Industry	<i>Medical Devices</i>
Position Held	Quality Control Analyst II
Main activities and responsibilities	<ul style="list-style-type: none"> ➤ Audit preparation and response, including: BSI, CLIA, ISO, and FDA ➤ QC Testing on custom products and cGMP medical devices (Amplidex, RNA retain, KRAS/BRAF, Armored RNA), including: Characterization, RT-PCR and gel electrophoresis, functional assessment, pH concentration, nuclease testing, raw materials, stock solutions, intermediates, in-process and filled components. ➤ Perform calibrations and validations on the following equipment: Luminex 100/200, ABI 3130xl Genetic Analyzer CE, ABI 7500 Fast Dx Real-Time PCR System, Thermal Cycler GeneAmp PCR System 9700, Agilent 2100 BioAnalyzer, NanoDrop Spectrophotometer ND-1000/2000, and Thermo Nicolet Avatar 370 FT-IR. ➤ Technical writing, including: SOPs, CAPAs, NCRs, OOSs, deviations, etc.
Notable Achievements	☆ Coordinator for Audits, new temperature monitoring system, and clean room lab conversion.
Grifols, Inc.	2010-2013
Industry	<i>Pharmaceutical</i>
Position Held	Quality Assurance Technician II
Main activities and responsibilities	<ul style="list-style-type: none"> ➤ Perform test batch review and release for final result reporting ➤ Temperature probe studies and validations of all freezers and refrigerators (20+) ➤ Proficient in operating diagnostic instrumentation and all related data analysis: PRISM, Triturus, Tigris, Helena System 3000, Architect C8000, centrifuges Beckman Coulter & Sorvall rt7, and Hamilton STAR.
Health & Human Services	2006-2010
Industry	<i>Healthcare and Social Services</i>
Position Held	Texas Works Advisor II, III, and IV
Main activities and responsibilities	<ul style="list-style-type: none"> ➤ Floor Bilingual interpreter ➤ Help manage and train 22 people in Unit 92 for Children's Medicaid. ➤ Determining eligibility for individuals to receive Medicaid benefits, Food Stamps, TANF, or emergency Medicaid.
Notable Achievements	☆ Promoted to Assistant supervisor in 8 months