

## EDUCATION

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- **CUNY Queens College** Queens, NY  
*B.A. Computer Science / Minor in Mathematics / Cum Laude* *Completed on 05/2022*
- **Relevant Coursework:** Machine Learning, Natural Language Processing, Data Structures and Algorithms, Probability and Statistics, Bayesian Statistics, Linear Algebra, Discrete Mathematics, Calculus.

## PUBLICATIONS

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- **Generating Grammatical Error Correction Confusion Sets with Round Trip Neural Machine Translation**  
**Frank Palma Gomez** and Alla Rozovskaya. *Working Progress.*
- **Using Neural Machine Translation for Generating Diverse Challenging Exercises for Language Learners**  
**Frank Palma Gomez**, Subhadarshi Panda, Michael Flor, and Alla Rozovskaya. *Under Review.*
- **Automatic Generation of Distractors for Fill-in-the-Blank Exercises with Round-Trip Neural Machine Translation**  
Subhadarshi Panda, **Frank Palma Gomez**, Michael Flor, and Alla Rozovskaya.  
*Proceedings of the ACL Student Workshop 2022*
- **Societies Within Peace Systems Avoid War and Build Positive Inter-group Relationships**  
Douglas P. Fry, Geneviève Souillac, Larry Liebovitch, Peter T. Coleman, Kane Agan, Elliot Nicholson-Cox, Dani Mason, **Frank Palma Gomez** and Susie Strauss.  
*Humanities and Social Sciences Communications 2021*

## EXPERIENCE

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- **Google** New York, NY  
*Student Researcher* *Sept 2022 - Present*
  - Developing automatic feedback generation models for language learners using language models (e.g T5, PaLM, etc.) and devising synthetic data generation processes. Mentored by Shankar Kumar.
- **Santa Fe Institute Undergraduate Complexity Research** Santa Fe, NM  
*Researcher* *June 2021 - Aug 2021*
  - Designed unsupervised approach for sarcasm generation by leveraging **language models** (SBERT) and **commonsense knowledge graphs** (COMET). Mentored by Tyler Millhouse and Melanie Mitchel.
- **Queens College Natural Language Processing Research** Queens, NY  
*Researcher* *Sept 2020 - Present*
  - Developed and implemented a novel method for automatically generating distractors for cloze exercises found in English Second Language (ESL) standardized tests using **Round Trip Neural Machine Translation**.
  - Advised by Alla Rozovskaya while enrolled in CS84000 at the **CUNY Graduate Center**.
- **Mozilla Builders Incubator** New York, NY  
*Software Engineer* *May 2020 - Aug 2020*
  - Developed Jamii, a match making app that allows you to chat with people your friends match you with. Work done with **Mozilla's Builders Incubator**, selective incubator aimed for web technologies and apps.
  - Designed and implemented Jamii's chat and matching features using **Flutter** and **Firebase** in under **3 months**.
- **Queens College Anthropological Research** Queens, NY  
*Researcher* *Sep 2019 - Sep 2020*
  - Applied machine learning techniques to explore characteristics promoting peacefulness within nations. Implemented modeling and statistical test to demonstrate significance in degree of peacefulness within nations.
  - Mentored by Larry S. Liebovitch.

## PROGRAMMING SKILLS

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- **Languages:** Java, Python, C/C++, Javascript, Dart, R
- **Technologies and Libraries:** Flutter, Firebase, Node.js, Pytorch, Tensorflow, Scikit-learn, Numpy, Linux, AWS, L<sup>A</sup>T<sub>E</sub>X