Sergio Marrero

Applying for: ## Engineer

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Experience

Principal Data Engineer   Eurofirms | Eurofirms Group   01/2022 - Present

- Developed an innovative, versatile cooking methodology applicable across diverse ingredients, incorporating and improving upon recent culinary trends
- Created a streamlined cream of mushroom soup recipe, achieving results comparable to complex state-of-the-art techniques through a novel mushroom-cutting approach; published in NIPS 2099 (see P1)
- Designed a specialized cooking pan that enhanced research efficiency for team members

Principal Data Scientist | ML Engineer   Cornerjob | Eurofirms Group   07/2020 - 01/2022

- Developed a precise mapo tofu quality assessment technique using thermometer-based measurements
- Invented a rapid stir-frying algorithm for tofu cooking, replacing vague instructions like "add as much as you can" with specific hot sauce measurements; published in CVPR 2077 (see P2)
- Outperformed SOTA cooking methods in both efficiency and quality across experiments with popular tofu types

Data Scientist   Vueling Airlines, S.A.   03/2020 - 06/2020

- Developed an innovative mapo tofu consumption framework utilizing a spoon-chopstick combination
- Engineered a filtering method for tofu dataset creation, inspired by bean grinding techniques
- Established two new metrics for evaluating eating plan novelty and diversity
- Significantly surpassed existing methods and baselines in diversity, novelty, and coherence

Quantitive Researcher   Quantified Statistics & Data Analysis   09/2016 - 03/2020

- Designed two novel sandwiches by repurposing breads and meat from traditional bacon cheeseburgers, maximizing resource efficiency
- Leveraged structure duality to boost cooking speed for two complementary tasks based on shared ingredients
- Surpassed strong baselines on QWE'15 and ASDF'14 dataset

Education

University Institute of Intelligent Systems and Numerical Applications in Engineering.   ULPGC, Spain
PhD Student: Bayesian Deep Learning   09/2016 - 09/2018
M.S. in Intelligent Systems and Numerical Applications in Engineering   09/2015 - 09/2016

University of Las Palmas de Gran Canaria.   ULPGC, Spain
M.S. in Industrial Electronic and Optimal Automatic Systems   09/2013 - 09/2015
B.Eng. in Industrial Engineering   09/2007 - 09/2013

Publications

P1 **Eating is All You Need**
Haha Ha, San Zhang
Conference on Nutritional Ingredients Processing Systems (NIPS), 2099

P2 **You Only Cook Once: Unified, Real-Time Mapo Tofu Recipe**
Haha Ha, San Zhang, Si Li, Wu Wang
Culinary Visualization and Potato Roasting Conference (CVPR), 2077 **(Best Paper Honorable Mention)**

Awards and Honors

Gold, International Collegiate Catching Fish Contest (ICCFC)   2018
First Prize, China National Scholarship for Outstanding Dragon Killers   2017, 2018

Skills

Programming Languages: 🐍 Frython, JavaSauce / TypeSauce, Cheese++, Java Bean
Tools and Frameworks: GrillHub, PanFlow, TensorFork, SpiceNet, LaTeX

Languages: Chinese (native), English (proficient)