FRANCESCA M. MARINI

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EDUCATION

University of Pennsylvania, Philadelphia, PA
Candidate for Bachelor of Arts, School of Arts & Sciences, C'21
Intended Majors: Cognitive Science and Computer Science
Minor: Mathematics
GPA: 3.92 / 4.00

Bishop Stang High School, North Dartmouth, MA
Valedictorian, President's List every quarter
GPA: 4.25 / 4.00

WORK EXPERIENCE

Cognitive Computation Group at the University of Pennsylvania, Philadelphia, PA
Researcher (March 2019 – Present)
Conduct independent and group research in Prof. Dan Roth's lab, specializing in Natural Language Processing, a branch of machine learning combining linguistics and AI; co-author research papers

Department of Computer Science at the University of Pennsylvania, Philadelphia, PA
Teaching Assistant for CIS 262: Automata, Computability, & Complexity (August 2020 - Present)
Teaching Assistant for CIS 120: Programming Languages & Techniques (August 2019 – December 2019)
Teaching Assistant for MCIT 592: Discrete Mathematics (August 2019 – December 2019)
Teach weekly recitation, conduct office hours, grade assignments and exams; answer questions on Piazza, an online message board for CS students

Brain Behavior Lab at HUP, Philadelphia, PA
Research Assistant (August 2018 – December 2018)
Assisted database programmer with improving and testing database interface for the research lab

Sallan Lab at the University of Pennsylvania, Philadelphia, PA
Research Assistant (May 2018 – August 2018)
Helped construct reliable fossil fish database to be used for future analysis in the paleobiology field

G.H. Bass Outlet, Sagamore, MA
Sales Associate (September 2016 – August 2017)
Worked register and sales floor, stocked merchandise, provided customer service

LEADERSHIP & COMMUNITY SERVICE

University of Pennsylvania Figure Skating Club, University of Pennsylvania
Founding Executive Board Member; Treasurer; Show Director (August 2017 – May 2020)
General Body Member (May 2020 – Present)
Responsible for growing club from infancy; produced four ice shows which provide majority of club funding; volunteer to teach figure skating lessons to students and through partnership with Police Athletic League

Women in Computer Science, University of Pennsylvania
Executive Board Member; Director of Community; WiCS Leadership (August 2018 – May 2020)
General Body Member (May 2020 – present)
Organized events to promote community bonding; participated in Percentage Project social media campaign

Penn Bioethics Journal, University of Pennsylvania
Associate Editor (August 2018 – May 2019; August 2020 - Present)
Evaluate, edit, and vote on submissions in double-blind peer review process

Peer / Major Advising Program, College of Arts & Sciences, University of Pennsylvania
Senior Peer Adviser (April 2018 - Present)
Advisor for the Cognitive Science Major (August 2019 – Present)
College of Arts & Sciences Major Advisory Board, Cognitive Science Representative (January 2020 - Present)
Mentor and advise freshmen, prospective / current Cognitive Science majors; solely represent Cognitive
Science major to Major Advisory Board

PERIOD@Penn, University of Pennsylvania
Fundraising Committee Member (August 2020 – Present)
Fundraise to provide feminine hygiene products to vulnerable populations in West Philadelphia

ΦΑΔ Law Fraternity, University of Pennsylvania
Brother (October 2020 – Present)
Member of largest professional law fraternity in United States

Colleges Against Cancer, University of Pennsylvania
General Body Member (August 2018 – May 2019)
Raised over $600 for Relay for Life from personal contacts, organized 5k and other fundraisers

Beth Israel Deaconess Hospital Plymouth, Plymouth, MA
Hospital Volunteer (2015 – 2016)
Worked information desk and phone, discharged patients; transported lab samples, drugs, paperwork

PROJECTS & PUBLICATIONS

- **(In Progress) Novel Pipeline for Preposition Semantic Role Labeling & Sense Disambiguation**
- **Building Low-Resource NER Models Using Non-Speaker Annotations** (2020)
- **University of Pennsylvania LoReHLT 2019 Submission** (2019)
- **An Explanation of the Gender Disparity in Multiple Sclerosis: Investigating the Genetic and Hormonal Bases for Increased Frequency of MS in Women** (2017)

AWARDS & HONORS

• University of Pennsylvania Dean's List (2017 – 2020)
• Google CSR Research Fellow (2019)
• Summer Research Paleontology Stipend Recipient (2018)
• Valedictorian, Bishop Stang High School (2017)
• AP Scholar with Distinction (2017)
• Class Secretary, Bishop Stang High School (2015 – 2017)
• National Honor Society Treasurer, Bishop Stang High School (2015 – 2017)
• Math Team, Co-Captain, Bishop Stang High School (2015 – 2017)
• National Merit Commended Scholar (2016)
• Harvard Book Award (2016)
• United States Figure Skating Gold Medalist in Moves in the Field (2016)
• Anthony Fernandes Sportsmanship Award, Falmouth Figure Skating Club (2016)
• Scholastic Art Awards, Honorable Mention (2015; 2013); Silver Key (2013)
• Massachusetts Regional Science Fair, 3rd Place (2014)

Programming Technologies:
Java, Python, OCaml, HTML, CSS, JavaScript, SQL, AllenNLP, PyTorch, LaTeX, Unix / Linux

Skills:
Research, leadership, technical & argumentative writing, collaborative team-member, verbal & written
communication, logical reasoning, analytical problem solving, data literacy, time management