

Maren James Adnee

(Maren Geisler)

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mjadnee.github.io

EDUCATION

B.A. Physics/Mathematics , UNIVERSITY OF MAINE	Jan 2023 - Present
GPA: 3.97	
Expected graduation: May 2025	
B.S. Biological Sciences , UNIVERSITY OF NEW MEXICO	Aug 2009 - May 2014
GPA: 3.27	

RELEVANT EXPERIENCE

Research assistant • Computational condensed matter physics	Jan 2024 – Present
Frontier Institute for Research in Sensor Technology, University of Maine	
Supervisor: Nicholas Bingham, PhD	
<ul style="list-style-type: none">• Assist in development of computational physics simulations of magnetic phenomena.• Assist in development of thin films and quantum sensors.	
Research assistant • Electrical engineering	Jan 2023 - Aug 2023
Advanced Manufacturing Center, University of Maine	
Supervisors: Bradley Denholm	
<ul style="list-style-type: none">• Engineering and programming of six-axis robotic arms and associated safety systems.• Development of in-house user manuals for FANUC robot operation.• Development of curriculum and tutorials for state-funded training program targeting employees of Maine based small and medium manufacturing companies on robotic arm operation and programming.• Design of custom parts using Solidworks CAD and MethodX 3D printer.• Supervised training exercises in basic machining and electrical techniques and safety.	
Project manager • International Development Division	Jan 2019 - Dec 2022
Osaka Headquarters, Saraya Co. Ltd.	
Supervisors: Zhang Li, Ohata Naomi, Yasuhara Toru	
<ul style="list-style-type: none">• Project manager for international and domestic chemical formulation development projects, including:<ul style="list-style-type: none">○ Neutral sanitizer for use in commercial food packaging (Japan)○ Anti-viral hand lotion for use in hospitals and medical clinics (EU)○ Anti-bacterial hand soap for consumer use (Thailand, Cambodia)• Assistant manager for international and domestic engineering projects, including:<ul style="list-style-type: none">○ Peracetic acid solution ultrasonic mixing tub (Uganda, Kenya)○ Automatic facial recognition temperature sensor (Japan)○ Biosurfactant manufacturing center establishment (France)• Project manager for product expansion projects, including:<ul style="list-style-type: none">○ Environmentally friendly baby care line, 1M USD budget (USA)○ Environmentally friendly kitchen line, 0.5M USD budget (France, EU)	
Research assistant • Data science	May 2013 - May 2014
Natural Heritage New Mexico, University of New Mexico	
Supervisor: Rayo McCollough	

- Development and maintenance of a state-wide database with up-to-date information regarding conservation status, population fluctuations, habitat, and general information for plant and animal species in the state of New Mexico (New Mexico Conservation Information System).
- Assisted in developing a multi-year analysis of population changes of the Lesser Prairie Chicken for use in an appeal to the NM senate and EPA to continue habitat protection efforts.

COMPETENCIES

Computational

Python (novice), R (novice), LaTeX (intermediate), Solidworks CAD (novice), Excel (intermediate)

Language

English (fluent), Japanese (fluent), Mandarin (novice)

Technical

Soldering, wiring, 3D printing (Method X), use of common power and pneumatic tools

Management

General project management, Agile, Scrum, and Waterfall methods

TEACHING AND OUTREACH

Exam Review Session Leader • Society of Physics Students Outreach	Spring 2024
	Fall 2023
Maine Learning Assistant • Physics for Scientists and Engineers I (PHY 121)	Fall 2023
Trainer • Advanced Manufacturing Center Robot Training Program	Summer 2023
Event Host • Maine State Science Olympiad	Spring 2024
	Spring 2023

EXTRACURRICULAR DEVELOPMENT

Introduction to Deep Learning (6.S191) • MIT (In-Person)	Winter 2023/24
Code in Place (first half of CS106A) • Stanford (Virtual)	Summer 2023
Climate Change AI Global Summer School 2023 • Climate Change AI (Virtual)	Summer 2023
Quiskit Global Summer School 2023 • Quiskit (Virtual)	Summer 2023

SOCIETIES AND CLUBS

Society of Physics Students, Member
 University of Maine Math Club, Member
 Institute of Electrical and Electronics Engineers, Member

AWARDS AND DISTINCTIONS

Dean's List	Current
Presidential Scholar (incoming transfer student)	Current