

Matias Choi

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SUMMARY

Thoughtful physicist devoted to research and development, blending theory with practical application. With over five years of experience in dynamic environments, focus includes uncovering innovative solutions through collaborative team efforts. Proven ability to analyze intricate data sets while fostering communication across multidisciplinary teams. Eager to apply theoretical expertise to solve real-world challenges and stay at the forefront of advancements in physics. Known for motivating others, sharing insights, and participating actively in team discussions aimed at achieving collective knowledge growth.

EXPERIENCE

Physicist/Scientist

June 2022 – Present

Innovative Research Solutions

Portland, OR

Lead researcher driving innovative projects that advance scientific understanding. Responsible for oversight of various initiatives in collaboration with fellow scientists and engineers. Implementation of cutting-edge technology platforms enhances both research efficiency and accuracy. Expertise lies in interpreting complex datasets using advanced computational techniques and statistical software tools.

- Conduct innovative research addressing real-world applications through scientific analysis.
- Collaborate closely with interdisciplinary teams to foster creativity and synergy across projects.
- Communicate project updates clearly, ensuring alignment on objectives and stakeholder expectations.
- Analyze complex data sets, utilizing advanced modeling and computational frameworks for insightful interpretations.
- Engage with emerging technologies, continually identifying new avenues for exploration and innovation.
- Ensure adherence to ethical standards, creating a safe and compliant research environment.

Research Physicist

July 2019 – May 2022

Quantum Innovations

Vancouver, WA

Focused on applying principles of quantum physics within industrial contexts, bridging academia and practical use. Coordinated R&D initiatives, translating theoretical concepts to real-world prototypes. Collaborated with engineering counterparts to enhance product design through empirical discoveries supported by robust research methodologies.

- Led innovative research projects yielding transformative findings that informed product development.
- Authored publications contributing to peer-reviewed journals, enhancing sector knowledge and practice.
- Designed prototypes demonstrating applications of quantum theories, significantly advancing technology effectiveness.
- Established partnerships with industry professionals during conferences, promoting collaborative opportunities.
- Supported mentorship programs for junior researchers, fostering talent and cooperative learning in labs.
- Facilitated effective communication within teams, garnering respect and appreciation for shared accomplishments.

Junior Scientist

August 2016 – June 2019

Tech Physics Labs

Bellevue, WA

Assisted leading physicists in conducting integral research experiments covering multiple areas of physics. Developed simulations predicting experimental outcomes, contributing to project planning and optimization. Engaged in active literature reviews, staying attuned to industry progress and applicable methodologies encountered in evolving research.

- Supported senior scientists in exploring various foundational and advanced physics topics.
- Created simulation models enhancing predictive capabilities and evaluating experimental results with precision.
- Collaborated on cross-functional team projects addressing complex physics inquiries through innovative reasoning.
- Presented significant findings in departmental discussions, amplifying collaborative interest among colleagues.
- Ensured lab safety protocol compliance, advocating for best practices in all conducted research activities.
- Participated in extensive safety training sessions, solidifying commitment to maintaining rigorous standards.

LEADERSHIP & AWARDS

- Dean's List, University of Washington, 2024
- Best Research Presentation, Physics Conference, 2025

EDUCATION

Master of Science in Physics

University of Washington GPA: 3.9

Coursework: Quantum Mechanics, Statistical Physics, Electromagnetism, Classical Mechanics

Seattle, WA

Bachelor of Science in Physics

University of California, Berkeley GPA: 3.8

Coursework: Thermodynamics, Optics, Wave Phenomena, Modern Physics

Berkeley, CA

2024

CERTIFICATIONS

- Certified Research Scientist  2025
- Leadership in Science Communication  2024

TECHNICAL SKILLS

- **Data Analysis Tools:** MATLAB, Python, R
- **Statistical Software:** SPSS, SAS, STATA
- **Research Methodologies:** Qualitative, Quantitative, Mixed-Methods
- **Collaboration Platforms:** Slack, Microsoft Teams, Google Workspace
- **Presentation Software:** PowerPoint, LaTeX, Prezi
- **Simulation Software:** COMSOL, Ansys, MatLab Simulink
- **Quantitative Analysis Tools:** GraphPad Prism, Minitab, Excel
- **Documentation Tools:** Confluence, SharePoint, Google Docs
- **Publication Management:** Overleaf, WordPress, ResearchGate
- **Safety Compliance Standards:** OSHA Guidelines, ISO Standards, Laboratory Protocols

SKILLS

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|--------------------------|---------------------------|--------------------------|-----------------------|
| • Data Analysis | • Technical Communication | • Quantum Theory | • Problem Solving |
| • Statistical Methods | • Project Management | • Scientific Publication | • Networking |
| • Research & Development | • Experimental Design | • Laboratory Safety | • Presentation Skills |
| • Team Collaboration | • Computational Modeling | • Emerging Technologies | |

PROFESSIONAL AFFILIATIONS

- Physics Club Member, University of Washington
- Mentor, Undergraduate Research Program, University of Washington

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST