

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

2026

Seattle, WA

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

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

Data Analysis

Statistical Methods

Research & Development

Team Collaboration

Technical Communication

Project Management

Experimental Design

Computational Modeling

Quantum Theory

Scientific Publication

Laboratory Safety

Emerging Technologies

Problem Solving

Networking

Presentation Skills

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