

Sheena Y. Chu

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EDUCATION

University of Wisconsin-Madison, Madison, WI

Master of Science in Medical Physics
Ph.D in Medical Physics

May 2022
Expected: May 2025

The University of Chicago, Chicago, IL

Bachelor of Arts in Physics with Honors
Bachelor of Science in Mathematics
Bachelor's Honors Thesis: Pedestal Study for the J-PARC KOTO E14 Experiment

June 2016

RESEARCH

University of Wisconsin-Madison, Madison, WI

August 2022 – Present

Graduate Research Assistant, LIRP Lab

- Develop a robust analytics methodology for accurate assessment of clinical MRI utilization with the goal of facilitating improved efficiency.
- Determine the impact of protocol interventions to improve patient experience by reducing workflow delays and post-arrival cancellations.
- Develop and validate a novel predictive analytics model to predict no-shows or late arrivals for clinical outpatient MRI appointments.
- Develop, optimize, and validate a novel phantom-based strategy for correction of quantitative T1 and T2 mapping.

The University of Chicago, Chicago, IL

June 2014 – June 2016

Research Assistant, Wah Lab

- Machined and constructed a life-sized prototype for an aspect of the main ring accelerator in the Japan Proton Accelerator Research Complex.
- Repaired custom Analog-to-Digital/Data Acquisition (ADC/DAQ) boards.
- Developed code using C and Python that reduced the background noise in the ADC/DAQ boards to optimize data collection.

EMPLOYMENT

Epic Systems, Verona, WI

Technical Coordinator

July 2019 – August 2020

Technical Solutions Engineer – Interoperability

September 2016 – August 2020

- Technical Coordinator for the Connected Care healthcare organization, leading a team of 40 technical solutions, integration, and systems engineers & project managers for their Epic implementation.
- Partnered with Epic's dedicated hosting service to determine server needs for hospital systems.
- Worked closely with organizations to implement the latest interoperability features as the Primary Interoperability technical solutions engineer for healthcare organizations across the country.
- Organized the California Regional User Group's monthly online meetings and annual in-person meeting of 45 major hospital systems as the Regional User Group Coordinator.
- Coordinated the investigation, documentation, communication, and development of critical code issues as the Broken Watchout Incident Manager of the Interoperability Team.

TEACHING

Sabio Academy, Glenview, IL

August 2012 – June 2016

Math and Physics Tutor

Subjects: Pre-Pre-Algebra, Pre-Algebra, Algebra 1, Algebra 2, Geometry, AP Physics, SAT Physics, Math Kangaroo, Korean American Scientists and Engineers Association Math Competition, and Number Theory.

- Taught weekly private and group lessons. Prepared students for success in math and physics classes and competitions.
- Prepared 90-minute lesson plans with flexibility to account for various student levels.

- Assessed student progress by grading homework assignments and exams.

AWARDS & HONORS

- Society for Advanced Body Imaging (SABI) Young Investigator Award. New Orleans, LA, October 2022.
- International Society for Magnetic Resonance in Medicine Educational Stipend. Toronto, CA, June 2023.
- University of Wisconsin-Madison Student Research Grants. June 2023

PUBLICATIONS

Journal Articles

Starekova J, **Chu SY**, Bluemke DA, Grist TM, Kusmirek JE, Nagle SK, Schiebler ML, Nagpal P, Reeder SB. MR Angiography as the Preferred Test for Pulmonary Embolism During the Iodinated Contrast Media Shortage of 2022: A Single-Center Experience [published online ahead of print, 2023 Jun 21]. *AJR Am J Roentgenol*. 2023;10.2214/AJR.23.29340. doi:10.2214/AJR.23.29340

Scientific Abstracts

Starekova J, **Chu SY**, Bluemke DA, Grist TM, Kusmirek JE, Nagle SK, Schiebler ML, Nagpal P, Reeder SB. Conserving Iodinated Contrast Media for Pulmonary Embolism During a Supply Chain Shortage: A Case for MRA. Poster. Society for Advanced Body Imaging (SABI) Annual meeting. October 7 – 11, 2023.

Chu SY, Briel E, Garrett JW, Reeder SB, Pirasteh A. Impact of Online Safety Screening on Outpatient MRI Workflow. Power Pitch. International Society for Magnetic Resonance in Medicine Annual Meeting. Toronto, CA, June 3 – 8, 2023. Program Number: 0594

Starekova J, **Chu SY**, Bluemke DA, Grist TM, Kusmirek JE, Nagle SK, Schiebler ML, Nagpal P, Reeder SB. MRA For Pulmonary Embolism to Conserve Iodinated Contrast Media During an Acute Supply Chain-Related Shortage. Poster. International Society for Magnetic Resonance in Medicine Annual Meeting. Toronto, CA, June 3 – 8, 2023. Program Number: 1688

Chu SY, Briel E, Garrett JW, Reeder SB, Pirasteh A. Impact of Online MRI Safety Screening Questionnaires on Patient Workflow. Poster. Radiological Society of North America Annual Meeting. Chicago, IL. November 27 - December 1, 2022.

Chu SY, Briel E, Garrett JW, Reeder SB, Pirasteh A. Impact of Online MRI Safety Screening Questionnaires on Patient Workflow. Oral Presentation. Society for Advanced Body Imaging (SABI) Annual meeting. New Orleans, LA, October 21-26, 2022. **Awarded Young Investigator Award**

Chu SY, Reeder SB, Garrett JW. Quantifying Efficiency and Variability of Clinical MRI Exams with Advanced Analytics Tools. International Society for Magnetic Resonance in Medicine Annual Meeting- Virtual. May 15-20, 2021. Program Number: 3001.

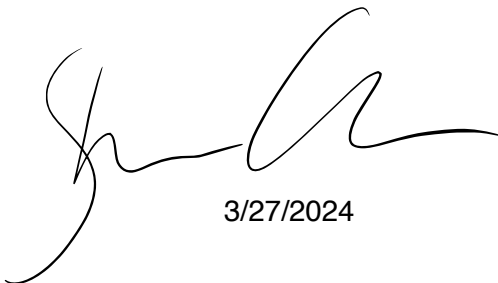
SERVICE

University of Wisconsin-Madison, Madison, WI

Medical Physics Department Student Representative

June 2021 – August 2023

- Organized and lead the 2021 and 2022 annual department open house for 40-50 prospective students.
- Coordinated several department events such as the department picnic and holiday party.
- Attended monthly meetings with the department chair and faculty as a liaison between students and faculty.



3/27/2024