

Richard Whitehill

Curriculum Vitae

(Updated: November 6, 2022)

Wichita State University
1845 Fairmount St,
Wichita, Kansas 67220

Personal E-mail: richard.whitehill@icloud.com
University E-mail: rmwhitehill@shockers.wichita.edu
Telephone: +1 (316) 617-9199

EDUCATION

Wichita State University [WSU]

2020 –

- Total GPA: 3.992 (earned hours: 149 credits)
- Bachelor's of Science in Mathematics (BS) and Physics (BS); Minor in Computer Science; Emory Lindquist Honors Scholar track
- Projected Graduation Term: Spring 2023 (on track for summa cum laude distinction)

Kansas Academy of Mathematics and Science [KAMS]

2018 – 2020

- Two-year dual enrollment program at Fort Hays State University [FHSU]

Eisenhower High School

2016 – 2020

- Summa Cum Laude (Rank: 1st of 208)

EMPLOYMENT

Thomas Jefferson National Accelerator Facility

- Undergraduate Student Research Intern

2021 –

- Science Undergraduate Laboratory Internship [SULI]

2022

Old Dominion University

2021

- Research Experience for Undergraduates [REU]

FHSU PHYS 211L TA

2019 – 2020

AWARDS

- Wayne Pfeiffer Mathematics Endowed Scholarship 2022
- Douglas A. Knight Memorial Scholarship 2022
- Nelson S. Ladd Physics Scholarship 2021 – 2022
- National Hispanic Recognition Program Scholarship 2020 – 2022
- Presidential Merit Scholarship 2020
 - Declined due to accepting other award
- WSU Dean's List
 - Fall 2020, Spring 2021, Fall 2021, Spring 2022
- Spirit Aerosystems National Merit Scholar 2020
- College Board National Hispanic Recognition Program Scholar 2020
- FHSU Dean's Honor Roll 2018 – 2020
 - Fall 2018, Spring 2019, Fall 2019, Spring 2020

SERVICE

- Student Representative for KAMS Director Search Committee 2020



RESEARCH PROJECTS

- Accessing gluon polarization with high- P_T hadrons in SIDIS *2021 – 2022*
 - Supervision: Wally Melnitchouk and Nobuo Sato
 - GitHub: https://github.com/QCDHUB/analysis-psidis_qT
 - REU poster: <https://education.jlab.org/ugresearch/21-29.html>
- Developing perfectly matched layer method for heat-diffusion equation *2019 – 2020*
 - Supervision: C. D. Clark
 - SACAD poster: https://scholars.fhsu.edu/sacad_2020/92/
- Survey of projectile motion under gravitational, drag, and magnus forces *2018 – 2020*
 - Supervision: C. D. Clark
 - GitHub: <https://github.com/CD3/BaseballSimulator>

INVITED TALKS

- WSU Physics Seminar *March 2022*
- CAM Seminar at WSU *September 2022*

CONFERENCES/WORKSHOPS

- Forward QCD: open questions and future directions (U. of Kansas) *May 2022*

PUBLICATIONS

1. R. M. Whitehill, Y. Zhou, N. Sato, and W. Melnitchouk
Submitted to Phys. Rev. D (2022), [arXiv:2210.12295 \[hep-ph\]](https://arxiv.org/abs/2210.12295)
Accessing gluon polarization with high- P_T hadrons in SIDIS