

Cameron JOHNSON

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH: MI, US | November 24, 1987
ADDRESS: 751 E. 23rd Ave. Eugene, OR 97405
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EDUCATION

MAR 2019-*Current* PhD Candidate in PHYSICS, UNIVERSITY OF OREGON
SEP 2016-MAR 2019 PhD Student in PHYSICS, UNIVERSITY OF OREGON
GPA: 3.83/4.0
JUN 2016 Bachelor of Science in PHYSICS, UNIVERSITY OF WASHINGTON
Major: Comprehensive Physics
Cum Laude, Departmental Honors
GPA: 3.77/4.0 (Cumulative)
GPA: 3.82/4.0 (Physics)
JUN 2014 Associate of Science, SOUTH SEATTLE COLLEGE
GPA: 3.9/4.0

PROFESSIONAL EXPERIENCE

SEP 2016-*Current* | Graduate Researcher at UNIVERSITY OF OREGON, Department of Physics
Electron Physics Group; Advisor: Benjamin McMorran
DEC 2014-AUG 2016 | Undergraduate Researcher at UNIVERSITY OF WASHINGTON, Department of Physics
Spintronics and Optical Sensing Lab; Advisor: Kai-Mei Fu
JUN 2006-AUG 2012 | CH-53E Helicopter Mechanic at USMC
Sergeant/Quality Assurance Representative

PUBLICATIONS

1. **C. Johnson**, D. Bauer, and B. McMorran. Improved Control of Electron Computer-Generated Holographic Grating Groove Profiles Using Ion Beam Gas-Assisted Etching. *Appl. Opt., AO*, **59** 1594-1601, (2020).
2. X. Linpeng, M. Viitaniemi, A. Vishnuradhan, Y. Kozuka, **C. Johnson**, M. Kawasaki, and K. Fu. Coherence properties of shallow donor qubits in ZnO. *Phys. Rev. Applied*, **10** 064061, (2018)

AWARDS AND HONORS

SEPT 2017- <i>Current</i>	National Science Foundation Graduate Research Fellow
NOV 2019	Microscopy and Microanalysis Poster Award
MAY 2018	UO Graduate Research Forum Poster Award
MAY 2016	Sigma Pi Sigma Physics Honors Society
SEPT 2015	University of Washington Physics Senior Honors Program
JUNE 2013	Phi Theta Kappa Honors Society
2008-2012	Navy and Marine Corps Achievement Medal x4

CONFERENCES, SEMINARS, AND WORKSHOPS ATTENDED

AUG 2019	MICROSCOPY AND MICROANALYSIS Oregon Convention Center; Portland, OR
JULY 2019	INT'L CONFERENCE ON QUANTUM IMAGING AND E-BEAM SHAPING Max Planck Institute for the Science of Light; Erlangen, DE
MAY 2019	OPTICAL SOCIETY OF AMERICA PNW OPTICS WORKSHOP Oregon Institute of Technology; Wilsonville, OR
MAR 2018	AMERICAN PHYSICAL SOCIETY MARCH MEETING Los Angeles Convention Center; Los Angeles, CA
JULY 2017	PARADIM SUMMER SCHOOL AND WORKSHOP Cornell University; Ithaca, NY
JULY 2016	MICROSOFT QUANTUM ALGORITHMS AND DEVICES WORKSHOP Microsoft; Redmond, WA

PRESENTATIONS GIVEN

AUG 2019	MICROSCOPY AND MICROANALYSIS Poster: High Efficiency Diffractive Optics Made with FIB GAE
JUL 2019	INT'L CONFERENCE ON QUANTUM IMAGING AND E-BEAM SHAPING Talk: Efficient Diffractive Optics for Structured Electron Spectroscopy
MAY 2019	OPTICAL SOCIETY OF AMERICA PNW OPTICS WORKSHOP Talk: High Efficiency Free Electron Diffractive Optics
MAY 2018	UO GRADUATE RESEARCH FORUM Poster: Applications of Electron Vortex Beams
MAR 2018	AMERICAN PHYSICAL SOCIETY MARCH MEETING Poster: Measuring Dichroism in Plasmonic Nanostructures with EVBs
MAY 2016	UW UNDERGRADUATE RESEARCH SYMPOSIUM Poster: Donor Bound Electrons in ZnO Nanowires as Spin Qubits
MAY 2015	UW UNDERGRADUATE RESEARCH SYMPOSIUM Poster: A Low Cost Automated Waveplate Rotator

TEACHING

- SUMMER 2018 LAB CLASS; University of Oregon, North Star Program
Physics of Image Formation (POC: Benjamín Aleman)
- SUMMER 2017 LAB CLASS; University of Oregon, North Star Program
Principles of Atomic Force Microscopy (POC: Benjamín Aleman)
- SPRING 2017 PHYSICS 206; University of Oregon, Dept. of Physics
Introductory Physics Lab III: Electricity and Magnetism
- WINTER 2017 PHYSICS 205; University of Oregon, Dept. of Physics
Introductory Physics Lab II: Thermodynamics and Waves
- FALL 2016 PHYSICS 204; University of Oregon, Dept. of Physics
Introductory Physics Lab I: Kinematics

OUTREACH AND MENTORSHIP

- 2019 Eugene Public Library: Makerhub Volunteer
- MAR 2019 Mad Duck: Egg Drop Module
- SEPT 2018 North Star Summer Program: Lab Instructor
- MAR 2018 Mad Duck: Egg Drop Module
- 2017-2019 North Star Mentorship Program: 3 Students
- SEPT 2017 North Star Summer Program: Lab Instructor
- 2016-2017 MUGS Mentorship Program: 1 Student
- MAR 2017 Mad Duck: Egg Drop Module
- DEC 2016 OSA outreach: Birefringence of Plastics Demo