Rebekah Pestes

Theoretical Particle Physicist

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Cheerful, determined, detail-oriented researcher who thrives on problem-solving, with 11+ years of tutoring experience and 5 published papers, focused on learning about the complex workings of the universe and sharing that understanding with others.

TEACHING EXPERIENCE

Math/Physics Learning Coach03/2022 - PresentNovaStar Prep TutoringReston, VAGraduate Teaching Assistant08/2016 - 12/2019

Virginia Tech, Physics Department Blacksburg, VA

- Tutored undergraduate physics majors/minors in any physics or math class up to 18 hrs/week
- For 1 semester: Taught/graded for 2 labs/week and tutored introductory physics students for 3 hrs/week

Teacher's Assistant

WWU, Physics Department College Place, WA

09/2010 - 07/2015

- Helped students in physics lab for 3 hrs/week
- Graded lab worksheets/reports and homework
- Tutored introductory physics students for 2hrs/week

Math Tutor	01/2012 - 06/2015
WWU, Teaching Learning Center	College Place, WA

Wastewater Treatment Lab Asst.01/2012 - 03/2013 WWU, Engineering Dept. College Place, WA

RESEARCH EXPERIENCE

Postdoctoral Associate05/2021 - PresentVirginia Tech, Physics DepartmentBlacksburg, VAAdvised by Dr. Patrick HuberState

- Organized weekly journal club meetings
- Mentored graduate student Yulun Li
- Teamed up on research with Dr. Francesco Capozzi

DOE Office of Science Graduate Student Research		
(SCGSR) Program Participant	01/2020 - 12/2020	
Brookhaven National Laboratory	Upton, NY	
Collaborated with Dr. Peter Denton (and a postdoc)		

Graduate Research Assistant 08/2015 - 05/2021 Virginia Tech, Physics Department Blacksburg, VA Studied neutrino theory with Dr. Patrick Huber

- Collaborated with 3 other professors and a postdoc
- Worked around the limitations of GLoBES to complete desired analyses, incl. adding new physics
- Created custom χ^2 calculator to minimize by hand when there were too many free parameters

Research Assistant09/2010 - 07/2015WWU, Physics DepartmentCollege Place, WAStudied protein folding with Dr. Roy Campbell

SKILLS

Operating Systems: Windows, Mac, and Linux **Programming:**

Programming:			
Mathematica	C/C++	Perl	
SQL	Python	, and more	
Libraries: GLoBES nuSQuIDS			
Soft: Patience	Resourcefulness	s Persistence	
Clear ar	nd Concise Comr	nunication	
Adaptability	Carefulness	Organization	
EDUCATION			
PhD Physics		08/2015 - 05/2021	
Virginia Polytechnic Institute & State University			
<i>Electives</i> : Intermediate General Relativity,			
-	Analysis of Physic		
Quantum Field	b	3.85 GPA	
MITP Summer S		07/2018 - 08/2018	
Mainz Institute for	0		
"Toward the Next Quantum Field Theory of Nature"			
BS Biophysics and Mathematics 09/2010 - 08/2015 Walla Walla University (WWU)			
Minor in Music Pe		3.81 GPA	
AWARDS			
Ladies of Robeso	n Award	2022	
Virginia Tech, Physic		\$300.00	
Gertrude Scharf	f-Goldhaber Pri	ze 2020	
Brookhaven Women	in Science	\$2,500.00	
SCGSR Program	ı Award	2019	
Department of Energy	y, Office of Science	\$36,714.07	
William E. Hassinger Graduate Fellowship 2018			
Virginia Tech, Physic		\$1,635.00	
Dean's Diversity	–	2015	
Virginia Tech, Gradu	ate School	\$32,645.00	

PROFESSIONAL MEMBERSHIPS

Sigma Pi Sigma	2017 - Present
Ladies of Robeson	2015 - Present
(VT club for women in physics)	
American Physical Society	2013 - Present