

Arthur Lei Qiu

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EDUCATION	University of Toronto, Canada 2016 – present <i>Honours B.Sc., mathematics and physics, expected graduation May 2020</i>
	Swiss Federal Institute of Technology (ETH) Zürich, Switzerland <i>Exchange student, one year duration</i> 2018 – 2019
RESEARCH EXPERIENCE	Experimental Particle Physics Group , University of Toronto <i>Supervisor: Prof. Pekka Sinervo</i> May – Aug 2018 <ul style="list-style-type: none">Improved machine learning algorithms applicable to studies of top quark production for the ATLAS Experiment at CERN.Certified by the Compute Ontario Summer School for courses in high-performance computing, machine learning, and neural networks.Funded by an NSERC Undergraduate Student Research Award (USRA) with Chair's Scholar distinction. Department of Astronomy and Astrophysics , University of Toronto <i>Supervisor: Prof. John Percy</i> 2017 – 2018 <ul style="list-style-type: none">Conducted time series analysis (Fourier and wavelet) on long-term stellar measurements using open-source software package VStar.Developed and tested reliable methods of determining variations in mean magnitude (brightness) of pulsating red giants.Funded by the University of Toronto Work-Study program.
REFEREED PUBLICATIONS	Percy, J. R. and Qiu, A. L. <i>Long-Term Changes in the Variability of Pulsating Red Giants (and One R CrB Star)</i> , J. Amer. Assoc. Var. Star Obs., 47 (2019), 1-7.
TEACHING EXPERIENCE	First-Year Learning Communities , University of Toronto <i>MAT157 (Analysis I) Peer Mentor</i> Sep 2019 – present <ul style="list-style-type: none">Led workshops on communication in mathematics and L^AT_EX.Did some other stuff. MAT135: Calculus 1(A) , University of Toronto Sep 2019 – present <i>Teaching assistant</i> <ul style="list-style-type: none">Led two weekly tutorial sections, facilitating Applied Communication Tasks to improve students' mathematical communication skills. MAT136: Calculus 1(B) , University of Toronto Jan – Apr 2018 <i>Teaching assistant</i> <ul style="list-style-type: none">Led two weekly tutorial sections, facilitating Peer-Assisted Reflection problem discussion to improve students' mathematical communication skills.Marked term test and final exam; held pre-exam office hours.
SELECTED HONOURS AND AWARDS	Ivan Szak Scholarship in Mathematics and Physics; <i>University of Toronto</i> . 2019 Class of 3T0 and Associates Scholarship in Mathematics and Physics; <i>University of Toronto</i> . 2018 Reuben Wells Leonard Scholarship in the Physical Sciences; <i>University College, University of Toronto</i> . 2017 and 2018 Dean's List Scholar; <i>University of Toronto</i> . 2017 and 2018

	Mobilitätsstipendium (Mobility Scholarship), <i>ETH Zürich</i> .	2018
	Heyning-Roelli Scholarship; <i>Heyning-Roelli Foundation</i> .	2018
	Undergraduate Student Research Award, Chair's Scholar distinction; <i>Natural Sciences and Engineering Research Council of Canada;</i> <i>Department of Physics, University of Toronto.</i>	2018
	International Experience Award; <i>Centre for International Experience,</i> <i>University of Toronto.</i>	2018
	Donald MacRae Scholarship in Astronomy and Astrophysics; <i>Department of Astronomy and Astrophysics, University of Toronto.</i>	2017
	University of Toronto Scholar; <i>University of Toronto.</i>	2017
	Governor General's Academic Medal, Bronze level; <i>Office of the Secretary to the Governor General of Canada.</i>	2017
	J.S. McLean Scholarship; <i>University College.</i>	2016
	President's Scholar of Excellence; <i>University of Toronto.</i>	2016
	National Book Award; <i>University of Toronto.</i>	2016
SERVICE	phimale , ETH Zürich	Apr – May 2019
ACTIVITIES	<i>Coffee Lecture volunteer</i>	
	<ul style="list-style-type: none"> Worked with event organizers to set up lectures on gender equality in mathematics and physics, attracting over 80 attendees. 	
	Vereinsanzeiger der Mathematik- und Physikstudierenden (Journal of the Association of Mathematics and Physics Students) , ETH Zürich	
	<i>Journal editor</i>	Apr – May 2019
	<ul style="list-style-type: none"> Proofread student-submitted articles and collaborated with journal editorial board to design layout in Adobe InDesign for 2019 volume. 	
	Accessibility Services , University of Toronto	Jan – Dec 2017
	<i>Volunteer note-taker</i>	
	<ul style="list-style-type: none"> Transcribed lecture notes into Microsoft Word/L^AT_EX for students with disability accommodations in computer science and ethics courses. 	
MISCELLANEOUS	Computer Skills	
	<ul style="list-style-type: none"> Languages: L^AT_EX, Python Software: Adobe Photoshop, Adobe InDesign, Microsoft Office suite, Git Operating systems: Windows 7/8/10, Ubuntu 16.04 	
	Languages	
	<ul style="list-style-type: none"> Native: English Conversational fluency: Mandarin Chinese Elementary proficiency: French, Standard German 	