

Ronny Nguyen

Address: 32 Leewood Street, Manchester, NH, 03103

Phone: (603) 858-4749

Email: nguryu@gmail.com or ronny.nguyen@ligo.org

LinkedIn: www.linkedin.com/in/nguryu

EDUCATION

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| Sep. 2020 – Aug. 2021 | MSc. Gravitational Wave Physics, Cardiff University
Advisor: Vivien Raymond |
| Aug. 2015 – May 2019 | B.S. Physics, University of New Hampshire (UNH)
Minor in Philosophy
Thesis: Determination of Multi-messenger Signals from Matter Outflows of Merger Systems
Advisor: Francois Foucart |

RESEARCH

Research areas	Experimental gravitation, high-energy astronomy, theoretical astrophysics
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Publications

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| In progress | Classification of X-ray Sources in the XMM-Newton Serendipitous Catalog
D. Lin, R. Nguyen , N.A. Webb, D. Barret |
| Jan. 2021 | Extracting the Parameters of GW190519 with RIFT
R. Nguyen , J. Lange, V. Raymond |
| Jun. 2018 | Evaluating radiation transport errors in merger simulations using a Monte-Carlo algorithm
F. Foucart, M.D. Duez, L.E. Kidder, R. Nguyen , H.P. Pfeiffer, M.A. Scheel |

Presentations

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| Nov. 2019 | Poster – A Study of Matter Outflows from a Binary Neutron Star Merger
The New Faces of Black Holes Conference, Annapolis, Maryland |
| Apr. 2019 | Poster – A Study of Matter Outflows from a Binary Neutron Star Merger
UNH Undergraduate Research Conference, Durham, New Hampshire |
| Apr. 2018 | Poster – X-ray Sources from XMM-Newton and the Search for Tidal Disruption Events
UNH Undergraduate Research Conference, Durham, New Hampshire |

WORK EXPERIENCE

Sep. 2020 – Present	Postgraduate Researcher/LIGO Scientific Collaboration member Cardiff University/UT Austin Principle Investigator(s): Vivien Raymond, Jacob Lange
Jun. 2020 – Sep. 2020	Summer Student NASA Marshall Space Flight Center Principle Investigator: Colleen Wilson-Hodge
Aug. 2019 – Dec. 2019	Adjunct Researcher UNH Department of Physics Principle Investigator: Francois Foucart
Jun. 2019 – Aug. 2019	Internship NASA Marshall Space Flight Center Advisor(s): Tyson Littenberg, Colleen Wilson-Hodge
Sep. 2017 – Jun. 2019	Undergraduate Researcher UNH Department of Physics Principle Investigator: Francois Foucart
May 2017 – Jun. 2019	Undergraduate Researcher UNH Space Science Center Principle Investigator: Dacheng Lin

TECHNICAL SKILLS

Programming	Python, C/C++, Git and Github, bash, MATLAB, FINESSE, high performance computing, parallel computing
Laboratory	Interferometer design and operation (including optical engineering), NMR techniques, nuclear spectroscopy
Data Analysis	Bayesian parameter estimation, Machine/deep learning, Markov-Chain Monte-Carlo techniques

TEACHING EXPERIENCE

Aug. 2019 – Dec. 2019	Tutor PHYS 508 – Thermodynamics and Statistical Mechanics UNH Department of Physics
Jan. 2019 – May 2019	Teaching Assistant MATH 645 – Linear Algebra for Applications UNH Department of Mathematics
Aug. 2016 – Dec. 2018	Teaching Assistant PHYS 407S – Studio Physics I, PHYS 407 – General Physics I UNH Department of Physics

OUTREACH

Nov. 2019	Public talk – LISA Ambassadors Listening to the Universe presentation at Oyster River High School
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Oct. 2019	Public talk – LISA Ambassadors Listening to the Universe presentation at Somersworth High School
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HONORS & AWARDS

Apr. 2020	US-UK Fulbright alternate candidate
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Jan. 2016 – May 2019	UNH Honors Program scholar
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May 2018	Sigma Pi Sigma physics honors society member
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