

GRANT C. WELDON

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EDUCATION

University of Michigan <i>B.S. Honors Physics, Mathematics</i>	2017 - 2021 <i>Ann Arbor, MI</i>
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RESEARCH EXPERIENCE

University of Michigan LIGO SCIENTIFIC COLLABORATION - MICHIGAN GRAVITATIONAL WAVE GROUP <i>Advisor:</i> Prof. Keith Riles	April 2018 - Present <i>Ann Arbor, MI</i>
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- Gravitational wave astrophysics, Advanced LIGO data analysis, and detector characterization
- Searching for continuous gravitational radiation emitted by rapidly spinning neutron stars

Istituto Nazionale di Fisica Nucleare (INFN) VIRGO COLLABORATION - TOR VERGATA GRAVITATIONAL WAVE GROUP <i>Advisors:</i> Prof. Viviana Fafone and Dr. Elisabetta Cesarini	June 2019 - July 2019 <i>Rome, Italy</i>
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- Metrology for thermal noise reduction in future gravitational wave interferometers

HONORS & AWARDS

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| · DOE-INFN Summer Research Fellowship , <i>U.S. Department of Energy & INFN</i> | 2019 |
| · Sophomore Honors Award with Distinction , <i>University of Michigan LSA Honors Program</i> | 2019 |
| · William J. Branstrom Freshman Prize , <i>University of Michigan</i> | 2018 |
| · Dr. Sidney J. and Irene Shipman Scholarship , <i>University of Michigan</i>
(full tuition, four year merit scholarship) | 2017 - 2021 |
| · Regents Merit Scholarship , <i>University of Michigan</i> | 2017 |
| · National Merit Scholarship Finalist , <i>National Merit Scholarship Corporation</i> | 2017 |

PUBLICATIONS

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1. B. P. Abbott, *et al.* (including **G. Weldon**), *All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data*, *Phys. Rev. D* **100**, 024004 [[arXiv:1903.01901](https://arxiv.org/abs/1903.01901)] (2019)

PRESENTATIONS

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3. **Midwest Relativity Meeting**, American Physical Society Division of Gravitation, Grand Valley State University, Grand Rapids, MI (October 2019); presented a talk, *Signal Overlays for Evaluating Continuous Gravitational Wave Candidates*
 2. **APS April Meeting**, American Physical Society, Denver, CO (April 2019); presented a talk, *Strain Histograms for Evaluating Continuous Gravitational Wave Candidates*
 1. **Society of Physics Students Speaker Series**, University of Michigan, Ann Arbor, MI (November 2018); presented a talk, *Continuous Gravitational Wave Simulations*

ORGANIZATIONS

Society of Physics Students (SPS) <i>Vice President</i> (2019 - 2020) <i>Outreach Chair</i> (2018 - 2019)	2017 - Present
American Physical Society (APS)	2017 - Present
Shipman Scholarship Society	2017 - Present
Honors Program, College of LSA	2017 - Present

OUTREACH & SERVICE

SPS Biweekly Speaker Series <i>Coordinator</i>	2019 - 2020 <i>Ann Arbor, MI</i>
Michigan Science Center - Physics Demo Day <i>Volunteer</i> with SPS (<i>Coordinator</i> in 2019)	2018 - Present <i>Detroit, MI</i>
Ann Arbor Hands-On Museum - Physics Palooza <i>Volunteer</i> with SPS (<i>Coordinator</i> in 2019)	2018 - Present <i>Ann Arbor, MI</i>
Burns Park Elementary School - Physics Night <i>Volunteer</i> with SPS	2017 <i>Ann Arbor, MI</i>

TECHNICAL KNOWLEDGE

Python, MATLAB, Linux/Unix, Bash, HTML, L^AT_EX