

Extreme Gravity Institute



Neil Cornish

- Gravitational Wave Astronomy



Amy Reines

- Black Hole hunter



Anne Lohfink

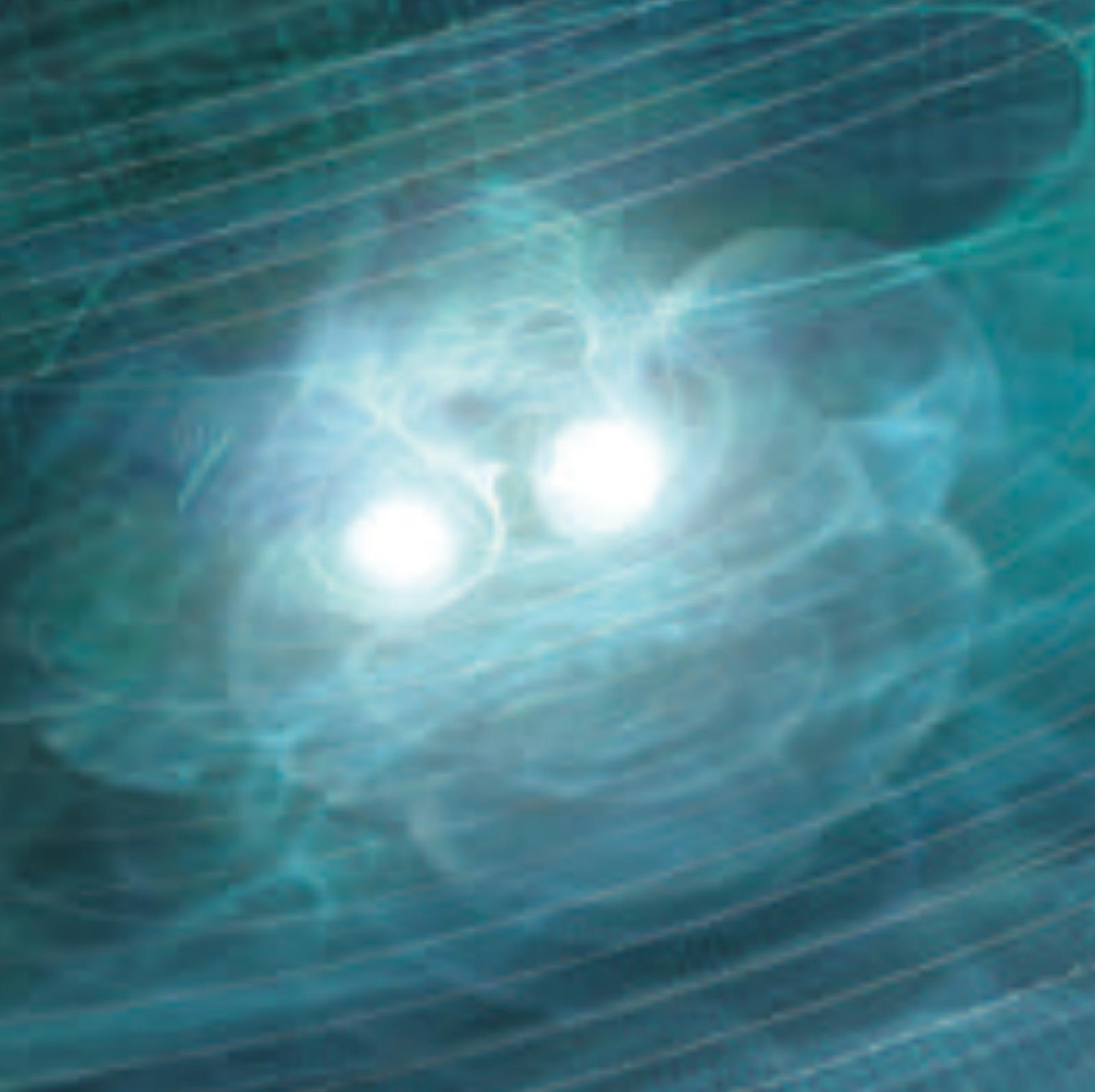
- Black Hole accretion disk & jets



Bennett Link

- Neutron star structure

- LIGO Scientific Collaboration
 - NANOGrav Collaboration
 - LISA Science Study Team & Consortium
-
- Bayesian Inference (BayesWave, BayesHopper)
 - Waveform modeling
 - Astrophysical Inference
 - Tests of general relativity using GWs



Montana State Gravity Group: Postdocs & Students

Postdocs

Remya Nair



Cosmology
Testing GR

Matthew Digman



Cosmology
LISA

Bence Becsy



NanoGrav
LIGO

Grad students

Toral Gupta



Neutron Stars
Testing GR

Kevin Schuman



LISA
Black Hole detection

Undergrad

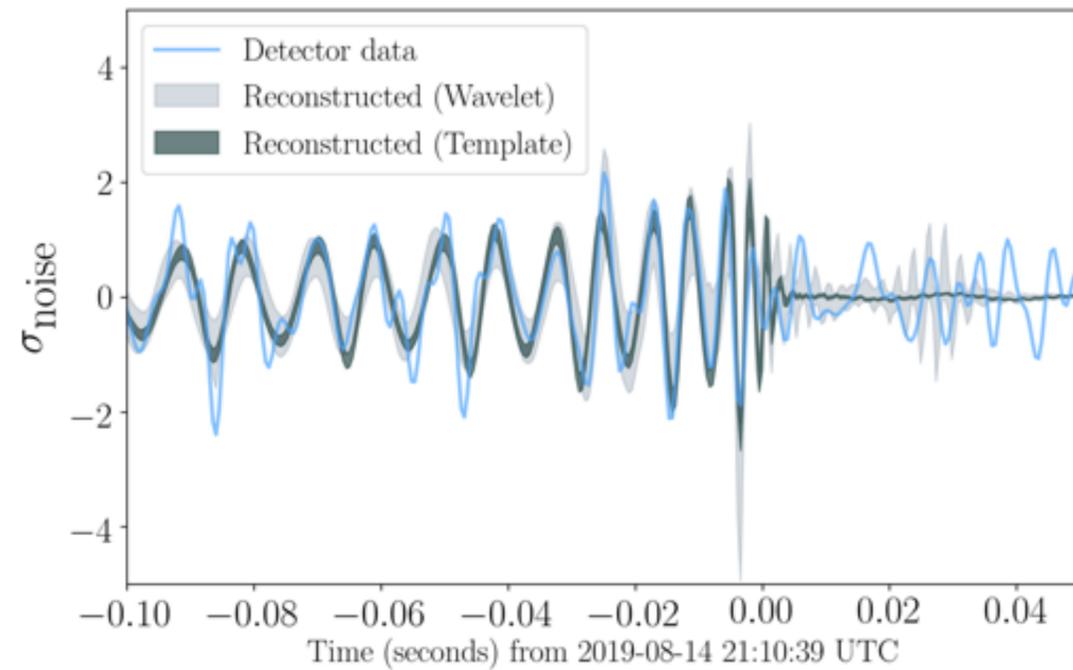
Jaxen Godfrey



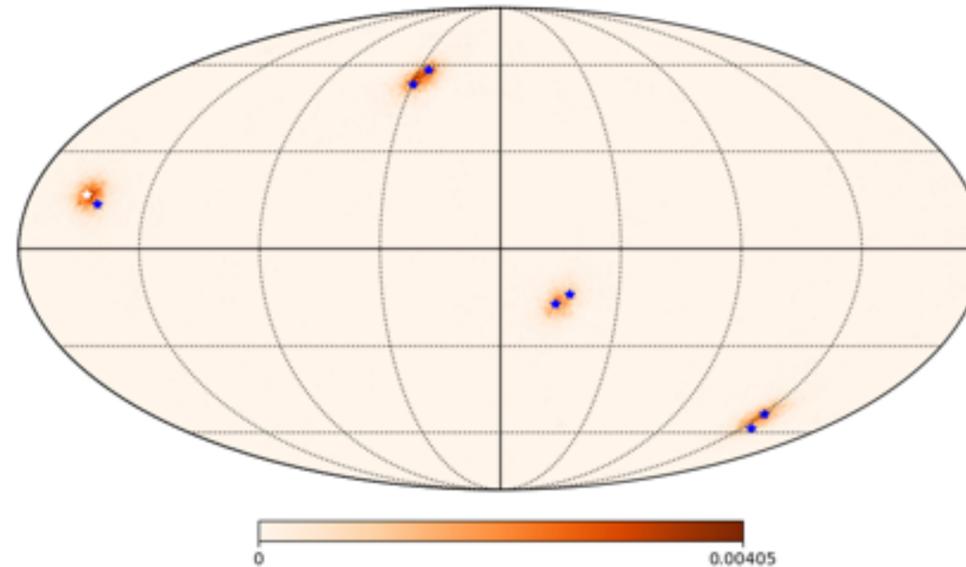
Gravitational Lensing of
Gravitational Waves

Montana State Gravity Group: Recent Highlights

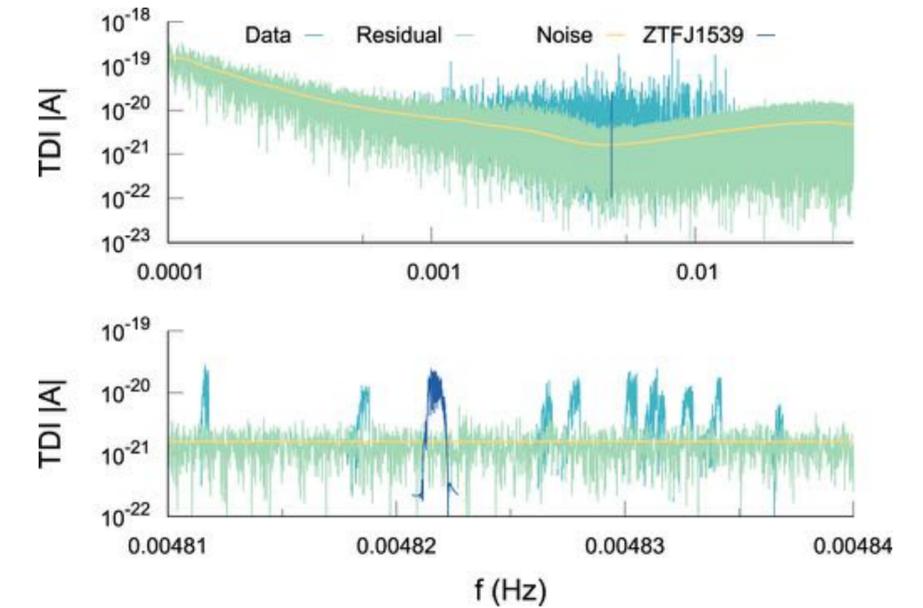
BayesWave reconstruction of GW190814:
Gravitational Waves from the Coalescence of a 23 Solar
Mass Black Hole with a 2.6 Solar Mass Compact Object



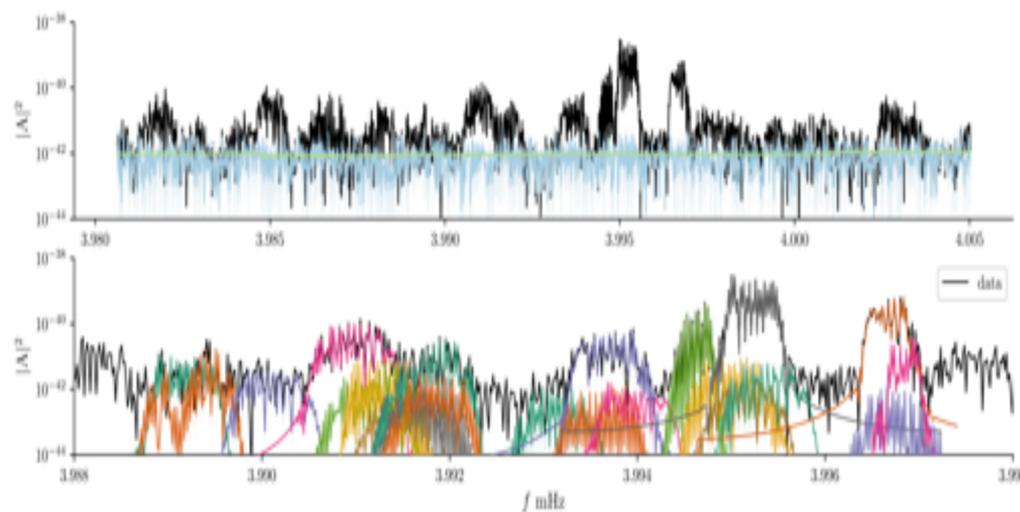
Hunting Black Holes with LISA
DOI: [10.1103/PhysRevD.101.124008](https://doi.org/10.1103/PhysRevD.101.124008)



Prospects for Gravitational Wave
Measurement of ZTF J1539+5027
DOI: [10.3847/2041-8213/ab385f](https://doi.org/10.3847/2041-8213/ab385f)



Detecting and characterizing UCBs with LISA
DOI: [10.1103/PhysRevD.101.123021](https://doi.org/10.1103/PhysRevD.101.123021)



BayesHopper
DOI: [10.1088/1361-6382/ab8bbd](https://doi.org/10.1088/1361-6382/ab8bbd)



Time to leave the frequency domain -
Wavelet domain GW analysis

