

Bellevue College LIGO Group

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Bellevue College

- Primarily associate degree-granting four-year institution of higher learning
- Public, open-access, community-based
- ~33,000 student annually
- Diverse student body
- Physics department
 - Enrolls ~950 students per year in entry-level courses
 - Offers all calculus-based sequence classes every term



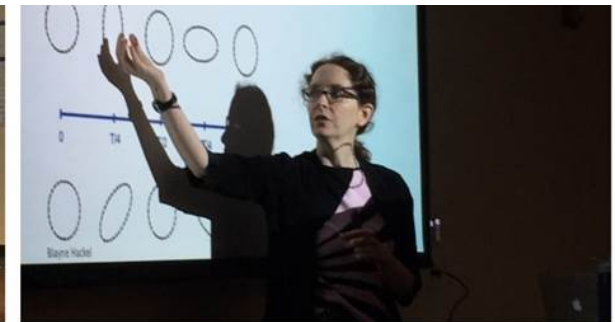
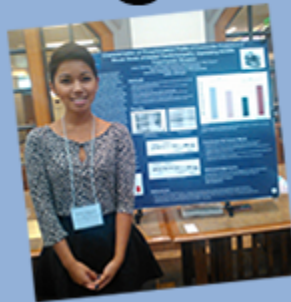
BC LIGO Activities: Stochastic

- Study of how intermittent signals from transients might affect measurements of stochastic background
 - Intermittent signals might arise from environmental, instrumental, and astrophysical sources
 - Simulate software signals characteristic of transients (e.g. combs, Gravity Spy glitches), and analyze with stochastic search pipeline
 - Will inform interpretation of signal

BC LIGO Activities: EPO

- Students present research to campus community
- Talks to students about gravitational waves and LIGO
- Updates to FAQ at ligo.org (*Yi Ting Huang*)

Making Learning Visible



Additional interests

- Studies show early research opportunities help retain students in STEM fields
- BC RISE Learning Institute has central aim of helping faculty develop research learning opportunities for students
- RISE houses locally-developed ComGen course
 - Classroom-based undergraduate genomics research

Please contact Gwynne if interested in discussing classroom-based LIGO research!



RISE
LEARNING
INSTITUTE

Future

- Continuing and expanding investigations into how intermittent transient signals might affect future stochastic gravitational-wave searches
- Develop classroom-based undergraduate research capitalizing on the interest and excitement around gravitational waves
 - Interested in collaborations!
- Contributing to STEM Exploration Center