**Ignacio Taboada**

**School of Physics**

**Georgia Institute of Technology**

**Professional Preparation**

|  |  |  |
| --- | --- | --- |
| Universidad Simón Bolívar, Caracas, Venezuela | Physics | BSc 1994 |
|  |  |  |
| University of Pennsylvania, Philadelphia, PA | Physics and Astronomy | PhD 2002 |
|  |  |  |

**Appointments**

2014 – present Associate Professor of Physics  
 Georgia Institute of Technology, Atlanta, GA

2008 – 2014 Assistant Professor of Physics

Georgia Institute of Technology, Atlanta, GA

2005 – 2008 Assistant Research Scientist  
 University of California, Berkeley, CA

2002 – 2004 Assistant Professor of Physics  
 Universidad Simón Bolívar, Caracas, Venezuela

**Products**

**Five products closely related to the proposed project**

1. “Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A”  
   The IceCube collaboration, Fermi-LAT, MAGIC, AGILE, ASAS-SN, HAWC, Swift/NuSTAR, VERITAS, VLA/17B-403 teams  
   Science 361 (2018) eaat1378
2. “Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert”  
   M.G. Aarsten et al. (IceCube collaboration)  
   Science 361 (2018) 147-151
3. “The IceCube Realtime Alert System”  
   M.G. Aarsten, et al. (IceCube collaboration)  
   Astroparticle Physics, 92 (2017) 30
4. “Observation and Characterization of a Cosmic Muon Neutrino Flux from the Northern Hemisphere using six years of IceCube data”  
   M.G. Aarsten, et al. (IceCube collaboration)  
   The Astrophysical Journal, 833 (2016) 3
5. “Search for Transient Astrophysical Neutrino Emission with IceCube-DeepCore”  
   M.G. Aarsten, et al. (IceCube Collaboration)  
   The Astrophysical Journal, 816 (2016) 75

**Five other significant products**

1. “Search for very-high-energy emission from Gamma-ray Bursts using the first 18 months of data from the HAWC Gamma-ray Observatory”  
   A.U. Abeysekara, et al. (HAWC collaboration)  
   The Astrophysical Journal, 843 (2017) 88
2. “Observation of High-Energy Astrophysical Neutrinos in Three years of IceCube data”  
   M.G. Aarsten, et al. (IceCube collaboration)  
   Physical Review Letters, 113, 101101 (2014)
3. “Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector”  
   M.G. Aarsten et al. (IceCube collaboration)  
   Science, 342 (2012) 6161, 1242856
4. “On the sensitivity of the HAWC observatory to gamma-ray bursts”  
   A.U. Abeysekara et al. (HAWC collaboration).  
   Astroparticle Physics, 35, (2012) 641
5. “Multiflavor and multiband observations of neutrinos from core collapse supernovae”  
   I. Taboada  
   Physical Review, D81 (2010) 083011

**Synergistic Activities**

1. Hands on demonstrations and lectures in high/middle schools in the metropolitan Atlanta area.
2. Design and construction of a demonstration spark chamber by Georgia Tech undergraduate students.
3. Participation in the Atlanta Science Festival
4. Multiple newspaper/radio/TV interviews about science, IceCube and HAWC.
5. Organization of a multi-wavelength session at the SACNAS (Society for the Advancement of Chicanos/Hispanics and Native Americans in Science)2017 conference