

## Stefanos Giampanis (Citizenship: Greek)

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### CONTACT INFORMATION

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### RESEARCH INTERESTS

Stochastic processes, Bayesian statistics, Data Analysis, and Signal Processing  
Cosmology and General Relativity

### CURRENT POSITION

**Max Planck Institute - AEI Hannover**, post-doctoral fellow

### EDUCATION

**University of Rochester**, Rochester, New York USA

Ph.D., Physics, July 2008

- Dissertation Topic: “Searching for a stochastic gravitational background radiation at high frequencies”
- Advisor: Prof. Adrian C. Melissinos

M.A., Physics, April 2005

**Aristotle University of Thessaloniki**, Thessaloniki, Greece

B.S., Physics, July, 2003

- overall GPA: 8.58/10 (excellent)
- concentration in Theoretical Physics (GPA: 9.21/10)
- Diploma Thesis: “Quantum phenomena affecting the structure of stars”
- Advisor: Prof. Georgios Gounaris

### HONORS AND AWARDS

- Research/Teaching Assistantship, University of Rochester, 2003-2010.
- Partial [Fulbright Scholarship](#), Greece, 2003 (scholarship award not accepted).
- [State Scholarship Foundation](#), Greece, for second best GPA (first year of studies), 1999.
- [State Scholarship Foundation](#), Greece, for fourth best performance in the Hellenic University Entrance Examinations, 1998.

### ACADEMIC EXPERIENCE

**University of Rochester**, Rochester, New York USA

*Teaching Assistant*

**Fall, 2007**

[PHY 415](#) (Electromagnetism I) and [PHY 510](#) (Relativistic Quantum Mechanics).

Maintained office hours, prepared homework sets solutions and graded homework sets.

*Lab Instructor*

**Fall, 2003 - Spring, 2004**

Introductory Electromagnetism Lab.

Taught and supervised lab, graded homework sets and maintained office hours.

### SELECTED PUBLICATIONS

*Selected LIGO Scientific Collaboration (LSC) publications in which I have made partial contribution.*

*A complete list of all LSC publications can be found at*

<https://www.lsc-group.phys.uwm.edu/ppcomm/Papers.html>.

LIGO/Virgo Scientific Collaboration. 2009.

An upper limit on the stochastic gravitational-wave background of cosmological origin,

[Nature 460, 990-994](#)

LIGO Scientific Collaboration. 2007.  
Upper limit map of a background of gravitational waves, [Phys. Rev. D 76, 082003](#)

LIGO Scientific Collaboration. 2007.  
First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds, [ApJ 659 918](#)

TECHNICAL  
PAPERS

*Unpublished LIGO documents.*

T. Fricke, S. Giampanis, and A.C. Melissinos. 2007.  
Synchronization issues affecting the FSR stochastic search during S4,  
LIGO Document [T070025-00-Z](#)

C. Forrest, T. Fricke, S. Giampanis, and A.C. Melissinos. 2007.  
Search for a Diurnal Variation of the Power detected at the FSR frequency,  
LIGO Document [T070228-00-Z](#)

A.C. Melissinos, T. Fricke, and S. Giampanis. 2007.  
The Effect of time shift on a cross-correlation statistic,  
LIGO Document [T070222-00-Z](#)

T. Fricke, S. Giampanis, and A.C. Melissinos. 2007.  
Geometric Acceptance of the LIGO Interferometers at the FSR Frequencies,  
LIGO Document [T070043-00-Z](#)

T. Fricke, S. Giampanis, and A.C. Melissinos. 2007.  
A Note on Calibration Issues at FSR,  
LIGO Document [T070044-00-Z](#)

S. Giampanis, T. Fricke, and A.C. Melissinos. 2005.  
Calibration of Fast Channels,  
LIGO Document [T050180-01-Z](#)

PRESENTATIONS

**Searching for multi-day transient gravitational waves from neutron stars,**  
8th Edoardo Amaldi Conference, June 22-26, 2009, Columbia University, New York  
LIGO Document [G0900557-v3](#)

**Searching for transient gravitational waves from rapidly rotating neutron stars,**  
13th Gravitational Wave Data Analysis Workshop, January 19-22 2009, San Juan, Puerto Rico  
LIGO Document [G0900047-v1](#)

**S5 Free-Spectral-Range (FSR) Cross-Correlation Search,**  
LSC/Virgo Collaboration Meeting, September 22-25, 2008, Amsterdam  
LIGO Document [G080518-00-Z](#)

**Search for Stochastic Background of Gravitational Waves with LIGO,**  
2008 APS April Meeting and HEDP/HEDLA Meeting, St. Louis, Missouri  
LIGO Document [G080290-00-Z](#)

**Basics of String Theory - Dynamics of relativistic strings,**  
Blackboard Seminar, June 8, 2007, University of Rochester  
<http://www.pas.rochester.edu/urpas/calendar/2007/06/8>

**Calibration of Fast Channels,**

LSC Meeting, March 19-22, 2007, Hilton Capitol Center, Baton Rouge LA  
LIGO Document [G070098-00-Z](#)

**Analysis of S4 Data for a High Frequency (37.52kHz) Stochastic Background,**

LSC Meeting, March 19-22, 2006, Hanford WA  
LIGO Document [G060095-00-Z](#)

SKILLS

- Expert Matlab programmer and Linux user.
- Fluent in Python, HTML, Simulink, and Mathematica.
- Proficient in Greek, English, and German.

REFERENCES

Prof. Adrian C. Melissinos  
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Bausch & Lomb 209  
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Rochester, NY 14627  
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