

CURRICULUM VITAE

Gastón Alejandro Avila

October 29, 2014

Personal Information:

Date of Birth: 16th of august 1982
Place of Birth: Córdoba Capital, Córdoba, Argentina
Nacionalities: Argentine, Italian
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1 Education

- **Graduate School:** (Since 05/2008) PhD. Student, Potsdam University, Germany. Adviser: Prof. Helmut Friedrich. Supported by and carried out at: Max Planck Institute for Gravitational Physics (Albert Einstein Institute)
- **University:** (2002 - 2008) Licenciatura en Física, FaMAF, Universidad Nacional de Córdoba, Argentina. Average grade obtained 9.57 out of 10.
- **High School:** (1996 - 2001) Bachiller Técnico Metal-Meánico especialista en Máquinas Herramienta, Instituto Técnico Renault, Córdoba, Argentina.

2 Teaching Experience

- (03/2010–09/2010) Teaching Assistant: Classical Mechanics. Potsdam University, Germany.
- (03/2007–03/2008) Teaching Assistant (Type A). FaMAF, UNC, Argentina.
- (03/2005–03/2007) Teaching Assistant (Type B). FaMAF, UNC, Argentina.

3 Informatics skills

- OSs: Linux (Ubuntu), Mac OS X
- Languages: Python, JavaScript, SQL, Html5
- GIS y geolocation: OpenStreetMap, JOSM, Merkaartor, Maperitive, Mapnik
- Client side Web frameworks: Backbone.js, Angular.js, Openlayers.js, Google Maps API v3
- Server side Web: WSGI Python (Flask, Bottle), Node.js (Express.js), RESTful APIs using SWAGGER,
- Databases: PostgreSQL, SQLite, mongoDB,

4 Work experience

- (08/2014 – now) Sistemas Globales S. A., web UI analyst Senior. Tech Lead in hybrid proyect using angularjs + cordova for iPhone. Client: Virgin Mega
- (04/2014 – now) Ministerio de Transporte de la Provincia de Mendoza, technical advisor in applications to public transit. Web apps for geo-location, data analysis and modeling.
- (04/2013 – 08/2014) Sistemas Globales S. A., web UI analyst. Tech Lead in node.js + Backbone.js. Client: Thomas Cook
- (12/2011 – 06/2014) Municipalidad de Córdoba, technical advisor in applications to public transit. Comisión de Movilidad Integral. Web apps for geo-location, data analysis and modeling.
- (04/2008 – 11/2011) Max Planck Institute for Gravitational Physics (Albert Einstein Institute)

5 Languages

- **Spanish:** Native.
- **English:** Reads, writes and speaks

6 Publications

1. *Asymptotic staticity and tensor decompositions with fast decay conditions* (Doctoral dissertation) Gastón A Avila, PhD. Institutional Repository of the University of Potsdam, <http://opus.kobv.de/ubp/volltexte/2011/5404/> 07.10.2011.
2. *The Yamabe invariant for axially symmetric initial data of two Kerr black holes.* Gastón A Avila and Sergio Dain. Classical and Quantum Gravity, 25(22):225002 (13pp), 2008.

7 Talks

- *Tensor decompositions with fast decay conditions at space-like infinity*, Grav11 - FaMAF, Córdoba, Argentina. 11/04/2011.
- *Tensor decompositions with fast decay conditions at space-like infinity*, Workshop on Mathematical Relativity - ESI, Vienna, Austria. 28/01/2011.
- *The Yamabe invariant for axially symmetric two Kerr black holes initial data*, Grav09 - Córdoba Argentina. 15/04/2009.

8 Scientific Meetings

- *Grav11*, Congress on General Relativity and Gravitation (FaMAF), La Cumbre, Córdoba, Argentina. 11/04/2011 - 15/04/2009.
- *Workshop on Mathematical Relativity*, International Centre for Mathematical Science - Edinburgh, UK. 1/09/2009 - 7/09/2010.
- *Seminar on Mathematical Relativity* - Erwin Schroedinger Institute, Vienna, Austria. 27/01/2011 - 29/01/2011.

- *Space, Time and Beyond*. Conference in honor of Helmut Friedrich's birthday. 08/10/2009 - 09/10/2009.
- *Grav09*, Congress on General Relativity and Gravitation, FaMAF, Córdoba, Argentina. 13/04/2009 - 17/04/2009.
- *Grav07*, Congress on General Relativity and Gravitation, FaMAF, Córdoba, Argentina. 5/11/2007 - 7/11/2007.
- *Grav06*, Fifty years of FaMAF & Workshop on Global Problems in GR, FaMAF, Córdoba, Argentina. 6/10/2006 - 11/10/2006.

9 Honors

- Graduated Top of the class 2001 - Instituto Técnico Renault,
- Awarded Academic Excellence Price 2001, by Banco Roela, Argentina.

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