Gastón A. Avila, PhD

Physicist, Software developer
Python, **Javascript**, **Linux**

I am Argentinean, living in Córdoba. I like to build things.
Generalization and solving large problems elegantly and efficiently motivate me. I like big cities and public transport.

Personal Information:

Date of Birth
16th of august 1982

Nacionalities
Argentine, Italian

Work address
Capitalinas Building, Humberto Primo 630, 3th floor 5000, Córdoba, +54 11 4109 1700

Private address
9 de Julio 2108, 2do A, X5003CQL, Cordoba, Argentina

Phone Number
+549 3512 055 880

E-mail
avila.gas@gmail.com

Github
github.com/avilaton

Education

2008.05 - 2011.10
PhD. Theorethical Physics, Potsdam University, Germany.

Advisor: Prof. Helmut Friedrich. Supported by and carried out at the Max Planck Institute for Gravitational Physics (Albert Einstein Institute)

2002.04 - 2008.04
Licenciatura en Física, FaMAF, Universidad Nacional de Córdoba, Argentina.

Average grade obtained 9.57 out of 10. Graduated on the 2008.03.27.

1996 - 2001
High School: Bachiller Técnico Metal-Meácnico especialista en Máquinas Herramienta, Instituto Técnico Renault, Córdoba, Argentina. Graduated with the highest average grade of the class of 2011.

Informatics skills

Languages
Python, JavaScript, SQL, Html5, CSS

Client side
Backbone.js, Angular.js, Openlayers.js, Google Maps API v3

Server side
WSGI Python (Django, Flask, Bottle), Node.js (Express.js), RESTful APIs using SWAGGER,

Databases
PostgreSQL, SQLite, mongoDB,

GIS, geolocation
OpenStreetMap, JOSM, Mapnik

▬▬▬ Work experience

06/2015 - now
Junar.com, web UI analyst Senior. Frontend developer.

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. Integration Lead for public transit data for google maps.

06/2015 - 11/2015
bahia.presupuestoabierto.org, Web UI analyst. Frontend developer (Angular.js). SQL analyst (Oracle).

08/2014 - 06/2015
Sistemas Globales S. A., Web UI analyst Senior. Tech Lead in hybrid proyect using angularjs + cordova for iPhone. Client: Virgin Mega

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. Responsible for the integration of city transit data with Google Inc.

04/2008 - 11/2011
Max Planck Institute for Gravitational Physics, Albert Einstein Institute.

▬▬▬ Languages

Spanish
Native.

English
Professional proficiency

▬▬▬ Teaching Experience

2010.03 - 2010.09
Teaching Assistant: Classical Mechanics. Potsdam University, Germany.

2007.03 - 2008.03
Teaching Assistant (Type A). FaMAF, UNC, Argentina.

2005.03 - 2007.03
Teaching Assistant (Type B). FaMAF, UNC, Argentina.

▬▬▬ Honors

2001
Graduated Top GPA of the Senior class - Instituto Técnico Renault.

2001
Awarded Academic Excellence Price, by Banco Roela, Argentina.

▬▬▬ Publications

Asymptotic staticity and tensor decompositions with fast decay conditions, (Doctoral disertation), Gastón A Avila, PhD, 07.10.2011.
Institutional Repository of the University of Potsdam

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.

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.

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.

avila.gas@gmail.com • +5493512055880
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