

Juan Daniel Flórez Weidinger



Personal Information

Date of Birth: 17th September 1983
Nationalities: Colombian-German

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Latest Degree: Bachelor in Physics
Minor in Biology
Minor in Mathematics

Education

Oct 2009 to present PhD thesis with Prof. Dr. Fred Wolf at the Max Planck Institute for Dynamics and Self-Organization and Bernstein Center for Computational Neuroscience in Göttingen, Germany.

Sep 2008 to present International Master's/PhD/MD-PhD Neuroscience Program at the International Max Planck Research School – Georg August Universität Göttingen. Master exam grade: 1.78 (B).

Dec 2007 Acknowledgment of the minor in Biology and the minor in Mathematics – Faculty of Sciences, Universidad de los Andes, Bogotá, Colombia

Aug 2004 – Dec 2007 Bachelor studies in Physics in the Universidad de los Andes. Grade Point Average: 4.54/5.00.

Jan - May 2004 One semester extension courses at the Universidad de los Andes.

Jun – Dec 2003 One semester bachelor studies in medicine in the Pontificia Universidad Javeriana, Bogotá, Colombia

Sep 2002 – Apr 2003 Extra year at school to complete the German Abitur obtaining a final grade of 1.8, Colegio Andino, Deutsche Schule, Bogotá, Colombia

Sep 1990 – Preparatory and High School in Colegio Andino, Deutsche Schule.
Jun 2002

Stipends and awards

Sep 2008 – Stipend of the Excellence Foundation for the Promotion of the Max Planck
Aug 2009 Society.

Aug 2004 – Loan of 17% of the total cost of the semester was waived and converted to
Dec 2007 scholarship for finishing the program in 7 semesters and with a grade point
average above 4.0/5.0

Dec 2004 Mention for obtaining a grade point average above the historical 3% line of
the Faculty of Science.

Apr 1999 Mention for participating in the final round of the Colombian Mathematics
Olympiad.

Research Experience

May – Jul Two months laboratory rotation with Dr. Renate Schweizer: “Brain Pong: A
2009 rtfMRI neurofeedback experiment” – Max Planck Institute for Biophysical
Chemistry and NMR Forschung GmbH.

Mar – May Two months laboratory rotation with Prof. Dr. Fred Wolf: “The syntax of
2009 neural language: insights from a threshold model with correlations in time
and across neurons” – Max Planck Institute for Dynamics and Self-
Organization and Bernstein Center for Computational Neuroscience

Jan – Mar Two months laboratory rotation with Dr. Alexander Gail: “Gain
2009 mechanisms in context specific visuomotor transformations: an *in silico*
approach” – German Primate Center and Bernstein Center for
Computational Neuroscience.

Mar – Aug Internship with PhD. Chad Leidy: Variability in the Rhodopsin activated
2008 signal transduction cascade in photoreceptors. Computer Simulation and
wet-lab data gathering – Faculty of Sciences, Universidad de los Andes

Aug - Dec Thesis Project with PhD. Chad Leidy: Measurement of the diffusion
2007 coefficient in a lipid monolayer with and without domains using FRAP and
Monte Carlo simulations. –Department of Physics, Universidad de los
Andes. Final Grade: 5.0/5.0.

Aug - Dec Internship with PhD. Ludwig De Braeckelee: Statistical analysis of the
2007 Failed State Index – Department of Physics, Universidad de los Andes,
Bogotá, Colombia

Aug - Dec 2007	Project in advanced Laboratory standardizing a protocol to produce a double supported lipid membrane and analysis of the dynamics of the domain formation through a change of temperature – Laboratory of Biophysics, Universidad de los Andes, Bogotá, Colombia
Apr – May 2007	Project in intermediate Laboratory measuring the growth of lipid domains in a supported monolayer through an increase of lateral pressure using a homemade Langmuir Trough – Laboratory of Biophysics, Universidad de los Andes.
Jun – Jul 2006	Two-month summer assistance in the standardization of protocols in electroformation of lipid giant unilamellar vesicles (GUV's), formation of supported lipid membranes, fluorescence measurements of lipid domains and diffusion coefficient and GUV's reaction to electromagnetic fields. – Laboratory of Biophysics, Universidad de los Andes

Teaching experience

Aug 2006 – Dec 2007	Tutor of the elective lecture “Plants and the Men” for 3 semesters, correcting homework and projects and helping the teacher to prepare some sections of the lecture – Department of Biology, Universidad de los Andes
Aug – Dec 2006	Teaching assistant in the Physics II lecture (Thermodynamics and Electromagnetism) for 2 hours per week for a whole semester, which counted 15% of the final grade of the magisterial course – Department of Physics, Universidad de los Andes
2004 – 2007	Several unofficial classes in Mathematics and Physics to high school and university students.

Other Activities

Apr – May /2003	30 hours first aid courses in the Colombian Red Cross Organization, Bogotá, Colombia.
2002 - 2003	Formed a theater group with Colegio Andino students, street-recyclers and ex drug addicts.
2002	Participated in making a documentary about street-recyclers in Bogotá to show to students of the Colegio Andino, Deutsche Schule, Bogotá.
2001	One year volunteer work in the Y.M.C.A. in Bogotá as a coordination assistant preparing meetings with social leaders of the poorest city circles and as a translator in the Y.M.C.A. offices.

