

AMANDA SORRIBES

amanda@amsorribes.com | www.amsorribes.com

EDUCATION

- Ph.D. Candidate**
2007 – 2015 (*exp.*)
Biophysics, *Universidad Autónoma de Madrid, Spain*
Specialized in studying bursty, long-tailed statistics in behavioral data.
- Master of Biophysics**
2006 – 2007
Universidad Autónoma de Madrid, Spain
- Master of Science, Physics**
2001 – 2006
Lund University, Sweden

WORK EXPERIENCE

- Data Scientist**
Jan 2013 – *current*
Freelance, online & Madrid, Spain
Developing analytics and data visualizations with tools such as Python, SQL and Tableau. Examples include twitter sentiment analysis, a web scraper and creating rich interactive data visualizations.
- Webmaster**
Oct 2011 – Oct 2014
Freelance, for Camping Al Porto in Sottomarina, Italy
Created a new web page, in accordance with the client's newly adopted logotype, and provided search engine optimization (SEO), contents updates and management of the website.
- Project Leader**
March 2012 – July 2013
Private capital funded student housing project, Madrid, Spain
Ideated, planned and executed a €750K student housing project within set schedule, in collaboration with a partner. Transferable skills include ability to prioritize, manage teams and effectively solve problems as they arise.
- Research Assistant**
March – Dec 2011
Cajal Institute of Neuroscience, Madrid, Spain
Analyzed the structure of brief awakenings during sleep in humans and zebrafish. Found that it develops similarly during lifespan in both species.
- Graduate Research Fellow**
March 2007 – Feb 2011
Universidad Autónoma de Madrid, Spain
Studied bursty, long tail distributions and found a link between bursty activity patterns and decision-making processes in genetically modified fruit flies. Developed tools to study long tail statistics in behavioral data.
- Visiting Research Scholar**
May – Sept 2008
University of Toronto, Canada
A four month research visit in the laboratory of Prof. Marla Sokolowski. Studied fruit fly “personality” through aggression and mating experiments.
- Student Gov. President**
July 2004 – June 2005
Lunds Naturvetarkår (LUNA), at Lund University, Sweden
Full time paid officer of the natural sciences’ student government, representing the interest of 2000 students, working actively on policies to improve education quality and student employability.

TECHNICAL SKILLS

- Languages & Tools
Python, Matlab, R, SQL, JSON, XML, RESTful APIs, HTML5, CSS3, JavaScript, MapReduce, Tableau, RapidMiner, Gephi, Excel.
- Methods & Techniques
Data cleaning and validation, Web scraping, Sentiment analysis, Web Analytics, A/B testing, Machine learning, Statistical model fitting, Social and economical network analysis, Data visualizations

FURTHER STUDIES

Mar 2014 (9 weeks)	<i>Social and Economic Networks Analysis, Stanford University / Coursera</i>
Jan 2014 (15 weeks)	<i>Computer Science and Programming, MIT / edX</i>
Dec 2013 (8 weeks)	<i>Learning From Data (Machine Learning), Caltech / edX</i>
Dec 2013 (12 weeks)	<i>Model Thinking, University of Michigan / Coursera</i>
Aug 2013 (10 weeks)	<i>Machine Learning, Stanford University / Coursera</i>
Jun 2013 (10 weeks)	<i>Introduction to Data Science, University of Washington / Coursera</i>
Mar 2013 (8 weeks)	<i>Data Analysis, Johns Hopkins University / Coursera</i>
Mar 2013 (10 weeks)	<i>Introduction to Databases, Stanford University Online</i>
Jan 2013 (4 weeks)	<i>Computing for Data Analysis, Johns Hopkins University / Coursera</i>

HONORS & AWARDS

"Most Original" Hackathon Prize April 2015	<i>Traity weekend of Code (#twoc15), Madrid, Spain</i> Me and two team mates won second prize at the TWOC hackathon for our web app "Badoogs", providing a platform for dog owners to connect.
Research Fellowship March 2007	<i>Universidad Autónoma de Madrid, Spain</i> Competitive Fellowship program awarded to the top 15% of all applicants, to be used for research at a host institution in Madrid.
Post-graduate Scholarship Oct. 2006 – Feb. 2007	<i>Universidad Autónoma de Madrid, Spain</i> Stipend covering tuition-fees and a monthly grant.
Excellence Award 2005, 2006	<i>The Academic Association (AF) of Lund University, Sweden</i> For excellent academic record and extensive dedication to the Natural Sciences Students' Union (LUNA).
Academic Record Award 5 times, 2002 – 2005	<i>Lund University, Sweden.</i> For outstanding academic record.
Outstanding Mathematics Student Award 2002	<i>Lund Mathematical Society, Sweden</i> The "Carl Hyltén-Cavallius" award given to the four best mathematics students each year (amongst ~500).

LANGUAGES

Swedish, English, Spanish	Native/bilingual proficiency
German, Danish, Italian	Limited working proficiency

PUBLICATIONS

- 2013 The ontogeny of sleep-wake cycles in zebrafish: a comparison to humans.
Sorribes A, Þorsteinsson H, Arnardóttir H, Jóhannesdóttir IH, Sigurgeirsson B, De Polavieja GG and Karlsson KÆ (2013). *Front. Neural Circuits* 7:178. doi: 10.3389/fncir.2013.00178
- 2011 The Origin of Behavioral Bursts in Decision-Making Circuitry.
Sorribes A, Armendariz BG, Lopez-Pigozzi D, Murga C, de Polavieja GG (2011). *PLoS Comput Biol* 7(6): e1002075. doi:10.1371/journal.pcbi.1002075
- 2006 Age-Independent Synaptogenesis by Phosphoinositide 3 Kinase.
Martín-Peña A, Acebes A, Rodríguez JR, **Sorribes A**, de Polavieja GG, Fernández-Fúnez P, Ferrús A (2006). *Journal of Neuroscience*, 26(40):10199-10208