

Pablo Barttfeld

CONTACT INFORMATION	Cognitive Science Lab. IIPsi - CONICET Email: cabalangofeld@gmail.com	
FACULTY POSITIONS	Assistant Researcher National Scientific and Technical Research Council Argentina	2016 -
EDUCATION	Universidad de Buenos Aires (UBA), Argentina PhD, Engineering	2004 - 2010
	Universidad Nacional de Córdoba (UNC), Argentina Master of Sciences, Biology	1997 - 2002
TRAINING	Postdoctoral Student Inserm's Cognitive Neuroimaging Unit Neurospin Center, CEA-Saclay, France Supervisors: Stanislas Dehaene and Ghislaine Dehaene-Lambertz	2013 - 2015
	Visiting Research Fellow Addenbrooke's Hospital Cambridge University, United Kingdom	2012
	Postdoctoral Student Integrative Neuroscience Laboratory Physics Department, UBA, Argentina Supervisor: Mariano Sigman	2011 - 2013
	Visiting Research Fellow Institut de Neurosciences Cognitives de la Méditerranée Marseille, France Supervisor: Bruno Wicker	2009
	PhD. student Integrative Neuroscience Laboratory Physics Department, UBA, Argentina Supervisor: Mariano Sigman	2008 - 2010
JOURNAL PUBLICATIONS	<ol style="list-style-type: none">Uhrig L., Sitt J., Jacob A., Tasserie J., Barttfeld, P., Dupont M., Dehaene S., Jarraya B. Resting-state dynamics as a cortical signature of anesthesia in monkeys. <i>Anesthesiology</i>(2018). Highlighted in "Highways of the Brain, Traffic of the Mind".Barttfeld*, P., Abboud* S, Lagercrantz H, Adén U, Padilla N, Edwards AD, Cohen L, Sigman M, Dehaene S,Dehaene-Lambertz G.A lateral-to-mesial organization of human ventral visual cortex at birth. <i>Brain Structure and Function</i> (2018). * equal contribution.Ais, J., Zylberberg, A., Barttfeld, P., Sigman, M. Individual differences in the shape, bias and precision of confidence distributions across perceptual decisions. <i>Cognition</i> (2016).	

4. **Barttfeld, P.**, Bekinschtein, T., Salles, A., Stamatakis, A., Adapa, R., Menon, T., Sigman, M. Frontoparietal connectivity predicts anaesthetic concentration but thalamic networks index conscious report. *Neuroimage Clinical* (2015).
5. **Barttfeld*, P.**, Uhrig*, L., Sitt*, J., Sigman, M., Jarraya, B., Dehaene, S. A signature of consciousness in the dynamics of resting-state brain activity. *Proceedings of the National Academy of Sciences* (2015). * equal contribution.
6. Sedeño, L., Couto, B., Melloni, M., Canales-Johnson, A., Yoris, A., Baez, S., Estevez, S., Velasquez, M., **Barttfeld, P.**, Sigman, M., Kichic, R., Chialvo, D., Manes, F., Bekinschtein, T., Ibañez, A. How do you feel when you cant feel your body?: Interoception, functional, connectivity and emotional processing in Depersonalization-Derealization Disorder. *PLoS One* (2014).
7. **Barttfeld*, P.**, Petroni*, P., Baez, S., Urquina, H., Sigman, M., Cetkovich, M., Torralva, T., Torrente, F., Lischinsky, A., Manes, F., Ibañez, A. Functional Connectivity and Temporal Variability of Brain Connections in Adults with ADHD or Bipolar Disorder: A Default Mode Network Analysis. *Neuropsychobiology* (2014). * equal contribution.
8. Couto, B., Salles, A., Sedeño, L., Pederajordi, M., **Barttfeld, P.**, Canales-Johnson, A., Vidal Dos Santos, Y., Huepe, D., Bekinschtein, T., Sigman, M., Favaloro, R., Manes, F., Ibanez, A. The man who feels two hearts: The different pathways of interoception. *Social Cognitive and Affective Neuroscience* (2013).
9. **Barttfeld, P.**, Amoroso, L., Ais, J., Cukier, S., Bavassi, L., Tomio, A., Manes, F., Ibañez, A. Organization of brain networks governed by long-range connections index autistic traits in the general population. *Journal of Neurodevelopmental Disorders* (2013).
10. **Barttfeld, P.**, Wicker, B., Graziano, M., Leiguarda, R., Sigman, M., Distinct patterns of functional brain connectivity correlate with objective performance and subjective beliefs. *Proceedings of the National Academy of Sciences* (2013). [Comment on PNAS Blog](#).
11. Gallos, L., **Barttfeld, P.**, Havlin, S., Sigman, M., Makse, H. Collective behavior and critical fluctuations in the spatial spreading of obesity, diabetes and cancer. *Scientific Reports* (2012).
12. Zylberberg, A., **Barttfeld, P.**, Sigman, M. The construction of confidence in a perceptual decision. *Frontiers in Integrative Neuroscience* (2012).
13. **Barttfeld, P.**, Wicker, B., Cukier, S., Navarta, S., Leiguarda, R., Sigman, M. State-dependent changes of connectivity patterns and functional brain network topology in Autism Spectrum Disorder. *Neuropsychologia* (2012).
14. **Barttfeld, P.**, Wicker, B., Cukier, S., Navarta, S., Lew, S., Sigman, M. A big world network in ASD: Dynamical connectivity analysis reflects a deficit in long-range connections and an excess of short-range connections. *Neuropsychologia* (2011). [Comment on the Autism Blog “Cracking the enigma”](#).

15. Jourdan, I., **Barttfeld, P.**, Zanuto, BS. A Theory about a Role of the Hyperdirect Pathway in Pattern Expression by the Basal Ganglia. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Buenos Aires, Argentina* (2010).
16. Yorio, A., Tabullo, A., Wainselboim, A., **Barttfeld, P.**, Segura, E. Event-related potential correlates of perceptual and functional categories: Comparison between stimuli matching by identity and equivalence. *Neuroscience Letters* (2008).
17. Abril, A., **Barttfeld, P.**, Bucher, E. The effect of fire and overgrazing disturbs on soil carbon balance in the Dry Chaco forest. *Forest Ecology and Management* (2005).

SELECTED

POSTERS AND PRESENTATIONS

1. Talk at the conference *Mind, Society and Behavior*. CONICET, Buenos Aires, Argentina (2018).
2. Luna F, Barttfeld P, Roca J, Lupiáñez J. Measuring attentional networks together with executive and arousal vigilance: the ANTI-Vea task. Poster at XII Congreso de la Sociedad Española de Psicología Experimental, Madrid, Spain (2018).
3. Demertzi A, Tagliazucchi E, Dehaene S, Deco G, **Barttfeld, P.**, Raimondo F, Rohaut B, Schiff N, Owen A, Laureys S, Naccache L, Sitt J. Human consciousness is supported by specific dynamic coordination patterns. Poster at the Human Brain Project conference, Barcelona, Spain (2018).
4. Demertzi A, Tagliazucchi E, Dehaene S, Deco G, **Barttfeld, P.**, Raimondo F, Rohaut B, Schiff N, Owen A, Laureys S, Naccache L, Sitt J. Human consciousness is supported by temporally evolving brain processes. ePresentation session at the 4th EAN Congress in Lisbon, Portugal (2018).
5. Talk at the 2nd Latin American Brain Mapping Network Meeting. Buenos Aires, Argentina (2017).
6. Talk at the International Symposium INECO New tendencies in neurodevelopment and cognition, Buenos Aires, Argentina (2015).
7. Talk at Conference "Brain dynamics in the primate brain", Neurospin, Saclay, France (2015).
8. Vidal Dos Santos, Y., **Barttfeld, P.**, Marno, H., Sigman, M., Mehler, J., Dehaene, S., Dehaene-Lambertz, G. Metacognition in 15-month-old infants. *Budapest Conference on Cognitive Development* (2015).
9. Talk at "First Theory-Cognitive workshop", European Institute for Theoretical Neuroscience, Paris, France (2014).
10. **Barttfeld, P.**, Calvar, J., Cukier, S, Deriche, R., Leiguarda, R., Navarta, S., Sigman, M., Wassermann, D., Wicker, B. Large-scale network analysis reflects big-world characteristics in Autism Spectrum Disorders. *17th Annual Meeting of the Organization for Human Brain Mapping. Quebec* (2011).

11. **Barttfeld, P.**, Petroni, A., Urquina, H., Sigman, M., Cetkovich, M., Torralva, T., Torrente, F., Bez, S., Lischinsky, A., Manes, F., Ibaez, A. Default mode network (DMN) impairments in adults with ADHD and Bipolar Disorder: Connectivity and Variability. *3rd International Congress on ADHD, Berlin* (2011).
12. **Barttfeld, P.**, Sigman, M., Cukier, S., Navarta, S., Calvar, J., Leiguarda, R., Wicker, B. Intrinsic brain connectivity in Autism Spectrum Disorders. *16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona* (2010).
13. **Barttfeld, P.**, Jourdan, I., Yorio, A., Zanutto, B., Seitz, A. Reward driven learning of associative rules in the absence of awareness. *Society For Neuroscience 38 Annual Meeting. USA* (2007).

GRANTS AND SCHOLARSHIPS	Proyectos de grupos de reciente formación. Director	2018
	CONICET short-stay grant for young researchers	2018
	Primar Grant. Co-director	2018
	PICT Young Investigator. PI	2015
	Return home grant RAÍCES	2015
	INSERM postdoctoral grant	2013
	James S. McDonnell Foundation. II Latin American School for Education, Cognitive and Neural Sciences	2012
	CONICET travel grant to University of Cambridge, UK	2012
	Post-doctoral scholarship, CONICET	2011
	Raul Carrea post-graduate Fellowship	2010
	Travel grant by CNRS, France (ECOS project) to France	2009
	PhD scholarship, University of Buenos Aires	2004
	Santa Fe Institute's Summer School. Qingdao, China	2004
TEACHING EXPERIENCE	Biological Systems	2005 - 2018
	Assistant professor	
	Engineering school	
	Buenos Aires University, Argentina	
MENTORING	MSc. students	
	Julieta Aguirre. Psychology, UNC	2018
	Santiago Alcaide. Biomedical Engineering, UNC	2018
	Alvaro Romano. Biomedical Engineering, UNC	2018
	Marcos Grillo. Psychology, Favaloro University	2018
	Joaquín Ais. Biology, UBA	2016
	PhD students	
	Fernando Luna. Psychology, UNC	2018
REVIEWING EXPERIENCE	Thesis committee member	
	Soledad Picco. MSc. Biology, UBA	2018
	Santiago Redondo. MSc. Psychology, UNC	2018
	Lucas Sedeño. PhD. Medicine, Favaloro University	2018
	Rocío Alvarez Mence. MSc. Physics, UBA	2016
	María González Gadea. PhD, Neuroscience, UNC	2015

Federico Santa Coloma. MSc. Engineering, UBA	2011
Scientific journal reviewing	
Frontiers in Human Neuroscience, Frontiers in Aging Neuroscience, Neuroimage, Cerebral Cortex, Cognitive, Affective and Behavioral Neuroscience, Human Brain Mapping, Journal of Psychiatry Research, Autonomic Neuroscience, Translational Psychiatry, Journal of Neurophysiology	
Grant Reviewing	
Agencia Nacional de Promoción Científica y Tecnológica	2017