

# Daniel Linares (Serra-Hünter Fellow)

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Department of Cognition, Development and Educational Psychology

Faculty of Psychology, University of Barcelona

Passeig de la Vall d'Hebron, 171, 08035 Barcelona, Spain

## EDUCATION

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Dec 2002 - Dec 2006	PhD in Psychology	University of Barcelona, Spain
Sep 1996 - Jul 2000	BS in Physics	University of Barcelona, Spain

## POSITIONS

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Feb 2022 - Present	Serra-Hünter Fellow	University of Barcelona, Spain
Oct 2020 - Feb 2022	Assistant Researcher	IDIBAPS, Spain
Feb 2017 - Oct 2020	Postdoc	IDIBAPS, Spain
Nov 2014 - Jan 2017	Postdoc	University of Barcelona, Spain
Mar 2014 - Oct 2014	Postdoc	University Paris Descartes, France
Dec 2009 - Dec 2013	Postdoc	Nippon, Telegraph and Telephone, Japan
Jun 2007 - Nov 2009	Postdoc	University of Sydney, Australia
Mar 2007 - Jun 2007	Temporary researcher	University of Barcelona, Spain

## GRANTS

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2021 - 2024	The perceptual response function to contrast in schizophrenia and anti-NMDAR encephalitis. <b>Daniel Linares (PI)</b> . Ministerio de Ciencia e Innovación (42.350€).
2018 - 2020	Estudio del procesamiento perceptual temprano en adolescentes con esquizofrenia de debut reciente y pacientes con encefalitis anti-NMDAR para evaluar la hipótesis glutamatérgica de la esquizofrenia. Gisela Sugranyes (PI), Thaís Armangué, Josep Dalmau, Albert Compte, <b>Daniel Linares</b> . PERIS, Generalitat de Catalunya (84.996€).
2016 - 2018	Alteraciones cognitivas en pacientes adolescentes con encefalitis antiNMDAR: posible disfunción en la percepción de la continuidad temporal y sus mecanismos. Albert Compte (PI), Josep Dalmau, <b>Daniel Linares</b> . Fundación Alicia Koplowitz (43.000€).
2007 - 2010	The processing of own action's sensory consequences and its effects on the temporal control of actions. Joan López-Moliner (PI), Eli Brenner, Elisabet Tubau, <b>Daniel Linares</b> . Ministerio de educación (39.000€).

## PUBLICATIONS

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20. \*Marin-Campos, R., Dalmau, J., Compte, A., & \***Linares, D.** (2021). StimuliApp: psychophysical tests on mobile devices. *Behavior Research Methods*, 53(3), 1301-1307. (\*corresponding)

19. \***Linares, D.**, Amoretti, S., Marin-Campos, R., Sousa, A. Prades, L., Dalmau, J., Bernardo, M., & Compte, A. (2020). Spatial suppression and sensitivity in schizophrenia. *Schizophrenia Bulletin Open*, 1(1), sgaa045. (\*corresponding)

18. \***Linares, D.**, Aguilar-Lleyda, D., & López-Moliner, J. (2019). Decoupling sensory from decisional choice biases in perceptual decision making. *eLife*, e43994. (\*corresponding)
17. \***Linares, D.**, Marin-Campos, R., Dalmau, J., & Compte, A. (2018). Validation of motion perception of briefly displayed images using a tablet. *Scientific Reports*, 8(1), 16056. (\*corresponding)
16. \***Linares, D.**, & López-Moliner, J. (2016). quickpsy: An R package to fit psychometric functions for multiple groups. *The R Journal*, 8(1), 122-131. (\*corresponding)
15. \***Linares, D.**, Cos, I., & Roseboom, W. (2016). Adaptation for multisensory relative timing. *Current Opinion in Behavioral Sciences*, 8, 35-41. (\*corresponding)
14. #Roseboom, W., #**Linares, D.**, & Nishida, S. (2015). Sensory adaptation for timing perception. *Proceedings of the Royal Society of London B*, 282: 20142833. (#equal contribution)
13. \***Linares, D.**, & Gorea, A. (2015). Temporal frequency of events rather than speed dilates perceived duration of moving objects. *Scientific Reports*, 5(8825). (\*corresponding)
12. \***Linares, D.**, & Holcombe, A. O. (2014). Differences in perceptual latency estimated from judgments of temporal order, simultaneity, and duration are inconsistent. *i-Perception*, 5(6) 559–571. (\*corresponding)
11. \***Linares, D.**, & Nishida, S. (2013). A synchronous surround increases the motion strength gain of motion. *Journal of Vision*, 13(13):12, 1–15. (\*corresponding)
10. \***Linares, D.**, Motoyoshi, I., & Nishida, S. (2012). Surround facilitation for rapid motion perception. *Journal of Vision*, 12(10): 3, 1-10. (\*corresponding)
9. Holcombe, A.O., **Linares, D.**, & Vaziri-Pashkam. (2011). Perceiving spatial relationships via attentional tracking and shifting. *Current Biology*, 21(13), 1135-1139.
8. \*#**Linares, D.**, #Holcombe, A.O., & White, A. L. (2009). Where is the moving object now? Judgments of instantaneous position show poor temporal resolution (SD=70 ms). *Journal of Vision*, 9(13):9, 1-14. (\*corresponding, #equal contribution)
7. \***Linares, D.**, & Holcombe, A.O. (2008). Position perception: Influence of motion with displacement dissociated from the influence of motion alone. *Journal of Neurophysiology*, 100, 2472-2476. (\*corresponding)
6. White, A.L., **Linares, D.**, & Holcombe, A.O. (2008). Visuomotor timing compensates for changes in perceptual latency. *Current Biology*, 18(20), pR951-pR953.
5. \***Linares, D.**, López-Moliner, J., & Johnston, A. (2007). Motion signal and the perceived position of moving objects. *Journal of Vision*, 7(7), 1-7. (\*corresponding)
4. \***Linares, D.**, & López-Moliner, J. (2007). Absence of flash-lag when judging global shape from local positions. *Vision Research*, 47, 357-362. (\*corresponding)
3. \***Linares, D.**, & López-Moliner, J. (2006). Perceptual asynchrony between color and motion with a single direction change. *Journal of Vision*, 9, 974-981. (\*corresponding)
2. López-Moliner, J., & **Linares, D.** (2006). The flash-lag effect is reduced when the flash is perceived as a sensory consequence of our action. *Vision Research*, 46, 2122-2129.
1. Nuñez-Peña, M. I., Aznar, J. A., **Linares, D.**, Corral, M. J., & Escera, C. (2005) Effect of dynamic rotation on event-related brain potentials. *Cognitive Brain Research*, 24, 307-316.

## AWARDS

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- 2016 - 2020 Pla estratègic de recerca i innovació en salut PERIS. Generalitat de Catalunya, Spain (104.821€)
- 2009 - 2011 Beatriu de Pinós postdoctoral fellowship. Generalitat de Catalunya, Spain (63.673€)
- 2006 Travel Award BE to visit UCL. Generalitat de Catalunya, Spain (6.000€)
- 2006 Best thesis in the department of Basic Psychology. University of Barcelona, Spain

## TEACHING

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### **Master: Research in Behavior and Cognition. University of Barcelona**

2022 - 2023 Principles of Decision Making in Perception and Action

### **Master: Cognitive Science and Language. University of Barcelona**

- 2023 - 2024 Perception, Action and Consciousness.
- 2022 - 2023 Perception, Action and Consciousness.
- 2015 - 2016 Perception, Action and Consciousness.

### **Degree: Psychology. University of Barcelona**

- 2022 - 2023 Memory and Representation.
- 2021 - 2022 Memory and Representation.
- 2020 - 2021 Perception and Attention.
- 2016 - 2017 Perception and Attention.
- 2015 - 2016 Perception and Attention.

## SUPERVISION

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### **PhD**

2022 - Present Cristina Rogríguez-Arribas. University of Barcelona.

### **Master**

- 2022 - 2023 Marcel·la Esquerra. Influence of handedness on global choice biases in perceptual decision-making. University of Barcelona.
- 2022 - 2023 Aster Joostens. Contrast sensitivity in patients with schizophrenia: a meta-analysis. University of Barcelona.
- 2022 - 2023 Bruno Pless. Less precise hidden states in perceptual decision-making show lower confidence. University of Barcelona.
- 2018 - 2019 Melanie Labusch. Contrast discrimination in schizophrenia as a possible biomarker of NMDA receptor dysfunction. Pompeu Fabra University.

## INVITED TALKS

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- 2017 Multisensory Research Group, Pompeu Fabra University, Spain.
- 2017 Barcelona Lecture Series. Faculty of Psychology, University of Barcelona, Spain. 2014 IDIBELL, Spain.
- 2014 Multisensory Research Group, Pompeu Fabra University, Spain.
- 2014 Faculty of Psychology, University of Barcelona, Spain.
- 2013 UCL-NTT 'Deep Brain Communication' Project Second Meeting, NTT, Japan. 2009 Perception and Emotion Research Group, NTT, Japan.
- 2009 Faculty of Psychology, University of Barcelona, Spain.
- 2009 Multisensory Research Group, Pompeu Fabra University, Spain.
- 2009 Psychology Department, University College London, UK.
- 2008 Macquarie Center for Cognitive Sciences, Macquarie University, Australia.

## CONFERENCE PRESENTATIONS

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29. Linares, D., Badia, F., Rosa, M., Dalmau, J., Castro-Fornieles, J. Sugranyes, G., Compte, & A. (2022). Motion sensitivity and spatial suppression in psychosis and anti-NMDAR encephalitis. CIP, Barcelona, Spain.
28. Badia, F., Linares, D., Compte, A., Rosa, M., Dalmau, J., Castro-Fornieles, J., & Sugranyes, G. (2020). Sensitivity for motion is weakened in first episode psychosis. SIRS.
27. Linares, D., Amoretti, S., Marín, R., Dalmau, J., Bernardo, M., & Compte, A. (2018). Assessing perceptual surround suppression in schizophrenia. BARCCSYN, Barcelona, Spain.
26. Linares, D., & López-Moliner, J. (2016). Choice bias contributes little to perceptual decision making in appearance tasks. ECVP, Barcelona, Spain.
25. Linares, D., Roseboom, W., & Nishida, S. (2015). Sensory adaptation for timing perception. BARCCSYN, Barcelona, Spain.
24. Roseboom, W., Linares, D., & Nishida, S. (2014). Audio-visual asynchrony exposure changes sensitivity for temporal synchrony: adaptation in relative timing mirrors adaptation in vision. IMRF, Amsterdam, The Netherlands.
23. Roseboom, W., Linares, D., & Nishida, S. (2014). Adaptation reveals mechanisms for enhanced representation of common and novel temporal relationships. International Conference on Timing and Time Perception, Corfu, Greece.
22. Linares, D., Motoyoshi, I., & Nishida, S. (2013) Facilitation of rapid motion perception by a static, but not dynamic, synchronous surround. Vision Sciences Society, Naples, USA.
21. Linares, D., Holcombe, A.O., Motoyoshi, I., & Nishida, S. (2012). Perceived timing of different features at surface formation. Asia-Pacific Conference on Vision, Incheon, Korea.
20. Linares, D., Motoyoshi, I., & Nishida, S. (2012). A synchronous surround increases motion sensitivity. Vision Sciences Society, Naples, USA. *Journal of Vision*, 12(9):149.
19. Linares, D., Motoyoshi, I., Maruya, K., & Nishida, S. (2011). Motion attached to a new surface is easier to detect. Vision Sciences Society, Naples, USA.
18. Holcombe, A. O., Linares, D., & Vaziri-Pashkam, M. (2010). Inability to perceive the spatial relationship of objects revolving too quickly to attentive track. Vision Sciences Society, Naples, USA. *Journal of*

17. Linares, D., & Holcombe, A. O. (2010). The curse of inconsistent auditory- visual perceptual asynchronies. Vision Sciences Society, Naples, USA. *Journal of Vision*, 10(7): 1411.
16. López-Moliner, J., & Linares, D. (2009). Mixing slow and fast speeds fools the colour- motion asynchrony illusion. European Conference on Visual Perception, Regensburg, Germany. *Perception* 38(10).
15. Linares, D., & Holcombe, A. O. (2009). Dissociating motion-induced position illusions by the velocity dependence of both their magnitude and their variability. Experimental Psychology Conference, Wollongong, Australia.
14. Holcombe, A. O., Linares D., & White, A. L. (2009). A temporal limit on judgments of the position a moving object. Vision Sciences Society, Naples, USA. *Journal of Vision*, 9(8): 5.
13. White, A., Tatam, S., Linares, D., & Holcombe, A. O. (2009). Visuomotor compensation for variation in perceptual latency. Vision Sciences Society, Naples, USA. *Journal of Vision*, 9(8): 841.
12. Holcombe, A. O., & Linares, D. (2009). Dissociating motion-induced position illusions by the velocity dependence of both their magnitude and their variability. Vision Sciences Society, Naples, USA. *Journal of Vision*, 9(8): 1093.
11. Linares, D., & Holcombe, A.O. (2008). Dissociating the flash-lag effect from the drifting- Gabor displacement effect. European Conference on Visual Perception, Utrecht, The Netherlands. *Perception*, 37(26).
10. Linares, D., White, A. L., & Holcombe, A. O. (2008). A general temporal source of noise in flash-lag and other position judgment tasks. Asia-Pacific Conference on Vision, Brisbane, Australia.
9. Holcombe, A.O., & Linares, D. (2008). Poor temporal precision in judging the position of a moving object, imposed at a late visual processing stage. Vision Sciences Society, Naples, USA. *Journal of vision*, 8(6): 367.
8. Linares, D., White, A.L., & Holcombe, A. O. (2008). Object localization at speeds below and above the attentive tracking limit. Vision Sciences Society , Naples, USA. *Journal of vision*, 8(6): 502.
7. Linares, D., & Soto-Faraco, S. (2007). Temporal ventriloquism studied by means of a backward masking paradigm. International Multisensory Research Forum, Sydney, Australia.
6. López-Moliner, J., & Linares, D. (2007). Perceived duration is shortened after motion direction changes. Vision Sciences Society, Naples, USA. *Journal of vision*, 7(9), 377.
5. López-Moliner, J., & Linares, D. (2005). Internal and external prediction in the flash-lag effect. Vision Sciences Society, Sarasota, USA. *Journal of vision*, 5(8): 205.
4. Linares, D., & López-Moliner, J. (2005). Absence of flash-lag when judging global shape from local positions. European Conference on Visual Perception. La Coruña, Spain. *Perception*, 34.
3. Linares, D., & López-Moliner, J. (2005). Influence of motion adaptation on the flash-lag effect. Congreso Ibérico de Percepción. Barcelona, Spain.
2. Aznar-Casanova, & Linares D. (2004). Stereo-haptic perception in virtual space. International Multisensory Research Forum. Barcelona, Spain.
1. Aznar-Casanova, Linares D., & Sinnett S. (2003). The scanpath discriminate between static and dynamic viewing in the recognition of 3-D objects. The European Society for Cognitive Psychology. Granada, Spain.

## ORGANIZING COMMITTEES

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2016 European Conference on Visual Perception. Barcelona, Spain.

## PEER REVIEW

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### **Grants:**

2018 - Now Agencia Estatal de Investigación (AEI)

2016 - 2017 Agencia Nacional de Evaluación y Prospectiva (ANEP)

### **Journals:**

Attention, Perception and Psychophysics

Experimental Brain Research

Journal of Vision

Journal of Experimental Psychology: Human Perception and Performance

Perception

PLoS ONE

Scientific Reports

Psychological Research

Psychological Science

Vision Research