

## Alfredo Manuel Feliciano Pereira

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Universidade do Minho, Portugal

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Updated on: 8<sup>th</sup> June 2014

### Education

2004-2009 – Dual Ph.D. In Psychology and Cognitive Science, IUB (Indiana University Bloomington, cf. <http://www.psych.indiana.edu/> and <http://www.cogs.indiana.edu/>).  
1993-1998 - *Licenciatura* (5 year undergraduate degree) in Informatics Engineering, Universidade Nova de Lisboa (cf. [www.fct.unl.pt](http://www.fct.unl.pt)).

### Academic and Professional Experience

2014– Adjunct Assistant Researcher (FCT Researcher Fellow), School of Psychology, Universidade do Minho  
2012–2014 Marie Curie Fellow, Mobile and Anthropomorphic Robotics Laboratory and Laboratory of Visualization and Perception, Centro Algoritmi, Universidade do Minho.  
2011– Adjunct Assistant Professor, Universidade do Minho.  
2010–2012 Post-doctoral Fellow, Center of Technology and Systems, UNINOVA, Universidade Nova de Lisboa, and Laboratory of Visualization and Perception, CIPsi, Universidade do Minho.  
2009-2010 – Post-doctoral Fellow, Department of Psychological and Brain Sciences, IUB.  
2008-2009 – Researcher, Cognitive Development Lab and Computational Cognition and Learning Lab, IUB.  
2004-2009 – Graduate Student, Psychology and Cognitive Science doctoral programs at IUB. Mentor: Linda B. Smith.  
2001-2003 – Researcher, Soft Computing and Autonomous Agents research group at CRI/UNINOVA. Project manager for several R&D projects aimed at demonstrating Artificial Intelligence technologies applicability to space missions' operations (cf. [www.uninova.pt/ca3](http://www.uninova.pt/ca3)). The client was the European Space Agency.  
2001 – Research Assistant, EU FET/FP6 funded project EEII (Evolution and Ecology of Interacting Infhabitants).  
2001 – Graduate student, Informatics doctoral program at Universidade Nova de Lisboa.  
1998-2000 – Consultant and Project Manager, Novabase, Marketing Automation and Data Mining Business.

### Publications

#### Journals

- James, K. H., Jones, S. S., Swain, S., Pereira, A. F., & Smith, L. B. (2014). *Some views are better than others: Evidence for a visual bias in object views self-generated by toddlers*. *Developmental Science*.
- Pereira, A. F., Smith, L. B., & Yu, C. (2013). *A Bottom-up View of Toddler Word Learning*. *Psychonomic Bulletin & Review*, 1-8.
- Smith, L.B., Yu, C., & Pereira, A. F. (2011). *Not Your Mother's View: The Dynamics of Toddler Visual Experience*. *Developmental Science*, 14(1), 9-17.
- Pereira, A. F., James, K. H., Jones, S. S., & Smith, L. B. (2010). *Early Biases and Developmental Changes in Self-Generated Object Views During Object Manipulation in Toddlers*, *Journal of Vision*, 10(11).
- Pereira, A., & Smith, L. B. (2009). *Developmental Changes in Visual Object Recognition Between 18 and 24 Months of Age*. *Developmental Science*, 12(1), 67-80.
- Yu, C., Smith, L. B., Shen, H., Pereira, A. F., & Smith, T. (2009). *Active Information Selection through Embodied Social Interaction*, *IEEE Transactions on Autonomous Mental Development*, 1(2), 141-151.
- Pereira, A. F., Smith, L. B., Yu, C. (2008). *Social Coordination in Toddler's Word Learning: Interacting Systems of Perception and Action*. *Connection Science*, 20(2), 73-89.

#### Book Chapters

- Campanella, G., Pereira, A., Ribeiro, R.A., & Varela, L.R. (2012). *Collaborative Dynamic Decision Making: a Case Study from B2B Supplier Selection* in *Collaboration in Real Environments*, Springer-LNBIP.

Smith, L. B., & Pereira, A. F. (2009). *Shape, action, symbolic play, and words: Overlapping loops of cause and consequence in developmental process*. In S. Johnson (Ed.), *A neo-constructivist approach to early development* (pp 109-131). New York: Oxford University Press.

#### *Peer-reviewed Conference Proceedings*

Pereira, A. F., Lisboa, I. C., Sousa, E., Santos, J. A., James, K. H., & Smith, L. B. (2014). Morphological shape analysis of children's actively generated viewpoints. In *Proceedings of International Psychological Applications Conference and Trends 2014, Porto, Portugal*.

Pereira, A. F., Yu, C., Smith, L. B., & Shen, H. (2009). A First-Person Perspective on a Parent-Child Social Interaction During Object Play. In *Proceedings of the 31<sup>st</sup> Annual Meeting of the Cognitive Science Society, Amsterdam, Holland*.

Pereira, A. F., James, K. H., Jones, S. S., & Smith, L. B. (2008). Active object exploration in toddlers and its role in visual object recognition. In *Proceedings of the 30<sup>th</sup> Annual Cognitive Science Society. Austin, TX: Cognitive Science Society*, 2410-2415.

Yu, C., Smith, L. B., & Pereira, A. F. (2008). Grounding Word Learning in Multimodal Sensorimotor Interaction. In *Proceedings of the 30<sup>th</sup> Annual Meeting of the Cognitive Science Society, Washington, DC, USA*.

Yu, C., Smith, L. B., & Pereira, A. F. (2008, August). Embodied solution: The world from a toddler's point of view. In *Proceedings of the 7<sup>th</sup> IEEE International Conference on Development and Learning ICDL2008* (pp. 97-102). IEEE.

Yu, C., Smith, L. B., Christensen, M., & Pereira, A. (2007). Two views of the world: Active vision in real-world interaction. In *Proceedings of the 29<sup>th</sup> Annual Meeting of the Cognitive Science Society. Mahwah, NJ: Erlbaum*.

Smith, L. B., Yu, C., & Pereira, A. (2007). From the outside-in: Embodied attention in toddlers. In *Advances in Artificial Life* (pp. 445-454). Springer Berlin Heidelberg.

Pereira, A., James, K. H., Jones, S. S., & Smith, L. B. (2006). Preferred views in children's active exploration of objects. In *Proceedings of the IEEE 5<sup>th</sup> International Conference on Development and Learning (ICDL06)*, Bloomington, IN USA.

Viana, N., Pereira, A., Ribeiro, R. A., & Donati, A. (2004, September). Handling missing values in solar array performance degradation forecasting. In *Proceedings of the 15<sup>th</sup> Mini-EURO conference on Managing Uncertainty in Decision Support Models (MUDSM 2004)*, Coimbra, Portugal.

Pereira, A., Ribeiro, R. A., Sousa, P. A., Pantoquilha, M., Bravo, P., Falcão, A., & D'Elia, S. (2004, September). An ontology to support knowledge enabled services on earth observation. In *Theory and Applications of Knowledge-Driven Image Information Mining with Focus on Earth Observation* (Vol. 553, p. 42).

Moura-Pires, F., Ribeiro, R. A., Pereira, A., Varas, F. J., Mantovani, G., & Donati, A. (2002, July). Data quality fuzzy expert system. In *Proceedings of the 10<sup>th</sup> Mediterranean Conference on Control and Automation-MED2002*, Lisbon, Portugal.

Pereira, F. Moura Pires, R. Ribeiro, L. Correia, N. Viana, F. Javier Varas, G. Mantovani, P. Bargellini, R. Perez-Bonilla and A. Donati (2002, June). Fuzzy expert system for gyroscope fault detection. In *Proceedings of the 16<sup>th</sup> European Simulation Multiconference on Modelling and Simulation 2002* (pp. 200-203). SCS Europe.

Varas, F. J., Casòliva, J., Busto, F. J., Moura-Pires, F., Pereira, A., Kresken, R., Dreger, F. & Donati, A. (2002, June). Genetic Optimisation of Reaction Wheels Speed Profiles for XMM Newton Telescope. In *Proceedings of the 16<sup>th</sup> European Simulation Multiconference on Modelling and Simulation 2002* (pp. 176-183). SCS Europe.

Mariano, P., Pereira, A., Correia, L., Ribeiro, R., Abramov, V., Szirbik, N., Goossenaerts, J., Marwala, T., & De Wilde, P. (2001). Simulation of a trading multi-agent system. In *Systems, Man, and Cybernetics, 2001 IEEE International Conference on* (Vol. 5, pp. 3378-3384). IEEE.

#### *Peer-reviewed Conference Abstracts*

Pereira, A. F., Sousa, E., Lisboa, I. C., James, K. H., Smith, L. B., & Santos, J. A. (2014). Uncovering the Functional Role of Infants' Biases in Viewpoint Selection During Object Exploration. *Poster presented at the 37<sup>th</sup> European Conference on Visual Perception, Belgrade, Serbia*.

Lisboa, I. C., Sousa, E., James, K. H., Smith, L. B., Santos, J. A., & Pereira, A. F. (2014). Looking at Planar Views during Active Object Visual Learning: Moments of Stability. *Poster presented at the 37<sup>th</sup> European Conference on Visual Perception, Belgrade, Serbia*.

Pereira, A. F., Lisboa, I. C., Sousa, E., Santos, J. A., James, K. H., & Smith, L. B. (2013). Main axis of elongation dynamics and the planar bias in active object inspection: a developmental approach. *Poster presented at the Leuven Christmas Applied Vision Association (AVA) conference, Leuven, Belgium.*

Pereira, A., & Smith, L. B. (2013). *Recognition of Common Object-Based Categories Found in Toddler's Everyday Object Naming Contexts.* Poster presentation at the 35<sup>th</sup> Annual Meeting of the Cognitive Science Society, Berlin, Germany.

Pereira, A., James, K. H., Jones, S. S., & Smith, L. B. (2010). *Large Differences in the Distribution of Instances of Common Object-Based Categories in Early Childhood.* Poster presentation at the 32<sup>nd</sup> Annual Meeting of the Cognitive Science Society, Portland, Oregon, USA.

## Communications

### Oral Presentations

Pereira, A. F., Lisboa, I. C., Sousa, E., Smith, L. B., James, K. H., & Santos, J. A. (2014, April 11-12). *Towards understanding the planar bias' functional role in children's active visual learning of objects.* Oral presentation at the 9th Meeting of the Portuguese Association of Experimental Psychology APPE 2014, Covilhã, Portugal.

Pereira, A. F., Smith, L. B. (2013). *A Natural History Approach to the Development of Structural Shape Perception.* Oral presentation at the 8<sup>th</sup> Meeting of the Portuguese Association of Experimental Psychology (APPE 2013).

Pereira, A. F., & Smith, L. B. (2012). *The Ecology of Shapes in a Toddler's Life.* Paper presentation at the XVIII Biennial International Conference on Infant Studies Minneapolis, Minnesota.

Pereira, A. F., James, K. H., Jones, S. S., & Smith, L. B. (2011). *Children's Knowledge of an Object's Canonical Upright and the Statistical Structure of Self-Selected Object Views.* Paper presentation at the SRCD11 Society for Research on Child Development Biennial Meeting, Montreal, Canada.

James, K. H., Swain, S. N., Pereira, A., Jones, S. S., & Smith, L. B. (2011). *Action Influences Perception by Limiting Available Information: What Toddlers Look at is Determined by How They Hold Objects.* Paper presentation at the SRCD11 Society for Research on Child Development Biennial Meeting, Montreal, Canada.

Pereira, A. F., Yu, C., & Smith, L. B. (2010). *Real-time Stabilization of Attention during a Parent-Child Social Interaction Supports Object Name Learning.* Talk presented at the 5<sup>th</sup> Meeting of the Portuguese Association of Experimental Psychology (APPE 2010).

Pereira, A. F., Yu, C., Smith, L. B. (2010). *Object Name Learning Embedded in the Real-Time Dynamics of a Parent-Child Social Interaction.* Paper presentation at the 2010 International Conference on Infant Studies, Baltimore, MD, USA.

Yu, C., Smith, L. B., Smith, T.G., Shen, H, Pereira, A. F. (2010). *Selecting and Stabilizing Visual Attention: The Role of Perception-Action Loops.* Paper presentation at the 2010 International Conference on Infant Studies, Baltimore, MD, USA.

Yu, C., Smith, L. B., Pereira, A. F., Smith, T.G., Shen, H. (2010). *Grounding Word Learning in Multimodal Real-Time Child-Parent Social Interaction.* Paper presentation at the 2010 International Conference on Infant Studies, Baltimore, MD, USA.

Yu, C., Smith, L. B., Pereira, A., & Shen, H. (2009). *Two Views of the World: Active Vision, Attention, and Perception and Action Loops in Real-World Interaction.* 2009 Vision Sciences Society Annual Meeting, Naples, FL, USA.

Pereira, A. F., Yu, C., Smith, L. B. (2009). *Grounding Word Learning in Multimodal Sensorimotor Interaction.* Paper presentation at the SRCD09 Society for Research on Child Development Biennial Meeting, Denver, CO USA.

Yu, C., Smith, L. B. & Pereira, A. F. (2009). *Active Vision in Real-World Interaction.* Paper presentation at the SRCD09 Society for Research on Child Development Biennial Meeting, Denver, CO USA.

Smith, L. B., Yu, C., & Pereira, A. F. (2009). *Body Prosody, Turn Taking, and Learning.* Paper presentation at the SRCD09 Society for Research on Child Development Biennial Meeting, Denver, CO USA.

Kalagher, H., Pereira, A. F., Stuehling, A. L., Smith, L. B. & Jones, S. S. (2009). *Shape Bias, Shape Caricature Recognition, and Symbolic Play in Early-, Typical-, and Late- Talking children.* Poster presentation at the SRCD09 Society for Research on Child Development Biennial Meeting, Denver, CO USA.

Pereira, A. F., James, K. H., Jones, S. S., & Smith, L. B. (2008). *Development of a Planar View Preference in Toddler's Object Active Exploration.* Talk presented at the 3<sup>rd</sup> Meeting of the Portuguese Association of Experimental Psychology (APPE 2008).

Pereira, A., James, K. H., Jones, S. S., & Smith, L. B. (2007). *Patterns of Object Active Exploration in Early Childhood.* Paper presentation at the SRCD07 Society for Research on Child Development Biennial Meeting, Boston, Mass. USA.

Smith, L. B., Yoshida, H., & Pereira, A. (2007). *Word Learning From the First-Person View*. Paper presentation at the SRCDO7 Society for Research on Child Development Biennial Meeting, Boston, Mass. USA.

Pereira, A., Ribeiro, R. A., Sousa, P. A., Pantoquilha, M., Bravo, P., Falcão, A., et al. (2004). *An ontology to support knowledge enabled services on earth observation*, ESA-EUSC 2004: Theory and Applications of Knowledge driven Image Information Mining, with focus on Earth Observation, Madrid (Spain): ESA Special Publication no. 553.

Pereira, A. (2002). *An Architecture for Space Weather Services*, in Proceedings of ESA Space Weather Workshop: Space Weather Applications Pilot Project, Noordwijk, Netherlands, December 2002.

#### *Poster Presentations*

Lisboa, I. C., Sousa, E., Santos, J. A., Erlhagen, W., Bicho, E., & Pereira, A. F. (2014, April 11-12). *Parent-child vocal coordination during joint construction tasks: a replication of the AVTA model of turn-taking*. Poster presented at the 9th Meeting of the Portuguese Association of Experimental Psychology APPE 2014, Covilhã, Portugal.

Lisboa, I., James, K. H., Smith, L. B., & Pereira, A. F. (2013). *Morphological properties and axes of elongation dynamics of planar views in children's self-generated object viewpoints*. Poster presented at the 8<sup>th</sup> Meeting of the Portuguese Association of Experimental Psychology (APPE 2013).

Pereira, A., Smith, L. B. (2007), *Shape Detail Matters in Recognition of Familiar Objects During Early Category Development*. Poster presentation at the SRCDO7 Society for Research on Child Development Biennial Meeting, Boston, Mass. USA.

### **Teaching and Student Supervision**

#### *2014- Invited Researcher, Universidade do Minho*

Member of the faculty team teaching: an introductory laboratory course on perception to 1<sup>st</sup> year psychology major students; a research laboratory course to 1<sup>st</sup> year students of the psychology doctoral program.

#### *2012-2013 Invited Researcher, Universidade do Minho*

Member of the faculty team teaching: an introductory laboratory course on perception to 1<sup>st</sup> year psychology major students; a research laboratory course to 1<sup>st</sup> year students of the psychology doctoral program.

#### *2011-2012 Adjunct Assistant Professor, Universidade do Minho*

Member of the faculty team teaching: an introductory laboratory course on perception to 1<sup>st</sup> year Psychology students; a research seminar and a research laboratory course to 1<sup>st</sup> year students of the Psychology doctoral program.

#### *2005 – Graduate Student Instructor, Indiana University*

Independently designed and taught a laboratory course in Introduction to Psychology (P153). Course enrolment was 90 students, primarily undergraduate psychology majors at the freshman level.

#### *2007 – Teaching Assistant, Indiana University*

Taught the laboratory component in Advanced Statistics in Psychology 2 (P553). Course enrolment was 20 graduate students, primarily in their first year of the doctoral program in psychology. The topic was general linear models.

#### *2006-2010 – Research Supervisor, Indiana University.*

Taught the course Supervised Research (P493/P494). Supervised creation and running of experiments, analyzing data, writing and presenting research, led reading group focused on cognitive development. From 2004 to 2010 I supervised a total of 51 students and 18 pursued graduate studies after the course

### **Professional Activities**

Organizer of a paper symposium at ICIS12 (International Society on Infant Studies) titled "Putting the Pieces Together: Development of Structural Shape Perception".

Main organizer of a paper symposium at SRCDO11 (Society for Research in Child Development) titled "Active Object Exploration and Development of Visual Object Perception".

Main organizer of a paper symposium at SRCDO9 titled "Sensorimotor Experience From a First Person View".

Main organizer of a two-day workshop associated with ECAL07 (European Conference on Artificial Life) titled *Dynamical Approaches to Development: Beyond the Metaphor* (<http://www.ecal2007.org/workshops.htm>). This workshop brought together 15 invited researchers of both natural and artificial systems, to discuss the nature of developmental change and its role in understanding the behavior of intelligent systems.

Organizer of a paper symposium at SRCDO7 titled "The Role of Action in Object Perception".

Reviewer for conferences: 35<sup>th</sup> Annual Meeting of the Cognitive Science Society (CogSci13); 34<sup>th</sup> Annual Meeting of the Cognitive Science Society (CogSci12); 2011 Biennial Meeting for the Society for Research in Child Development; 33<sup>rd</sup> Annual Meeting of the Cognitive Science Society (CogSci11); 31<sup>st</sup> Annual Meeting of the Cognitive Science Society (CogSci09); 7<sup>th</sup> International Conference on Development and Learning (ICDL08); 9<sup>th</sup> European Conference on Artificial Life (ECAL07); 5<sup>th</sup> International Conference on Development and Learning (ICDL06).

Reviewer for journals: *Cognition*, *Journal of Experimental Child Psychology*.

### Research Support

2012-2014 *TURNTAKE Marie Curie International Incoming Fellowship PIF-GA-2011-301155*  
Funding: 208,672€, 7<sup>th</sup> Framework Programme (European Commission)

2012–2013 *Self-Generated Object Views: Developmental Changes in Active Viewing PTDC/PSI-PCO/121494/2010*

Funding: 50,000€, FCT-MEC (Portuguese Ministry of Education and Science)

### Participation in R&D Projects

2012-2014 *TURNTAKE Marie Curie International Incoming Fellowship*

Role: Researcher

Funding: 7<sup>o</sup> Framework Programme (European Commission), PIF-GA-2011-301155

Duration: 24 months

Partners: Universidade do Minho

2012–2014 *Self-Generated Object Views: Developmental Changes in Active Viewing*

Role: PI

Funding: FCT-MEC, PTDC/PSI-PCO/121494/2010

Duration: 24 months

Partners: Centro de Tecnologias e Sistemas, UNINOVA, Universidade Nova de Lisboa e Laboratório de Visualização e Perceção, Centro de Investigação em Psicologia (CIPsi), Universidade do Minho.

2002-2003 *Earth Observation domain-specific Knowledge Enabled Services*

Role: Uninova team coordinator

Funding: ESA (European Space Agency)

Partners: GTD - Ingenieria de Sistemas y Software Industrial, S.A., Barcelona, Spain; UNINOVA, Universidade Nova de Lisboa (Portugal); Starlab, Barcelona, Spain; and Tor Vergata Università, Roma, Itália.

Project website: [http://www.ca3-uninova.org/project\\_eo\\_kes](http://www.ca3-uninova.org/project_eo_kes)

2002–2003 *CESADS/INTELMOD - Centralised ESTRACK Status and Diagnostic System*

Role: Uninova team coordinator

Funding: ESA (European Space Agency)

Partners: GTD - Ingenieria de Sistemas y Software Industrial, S.A., Barcelona, Spain; UNINOVA, Universidade Nova de Lisboa (Portugal)

Project website: [http://www.ca3-uninova.org/project\\_cesads\\_intelmod](http://www.ca3-uninova.org/project_cesads_intelmod)

2001–2002 *Fuzzy Logic for Mission Control Processes*

Role: Uninova team coordinator

Funding: ESA (European Space Agency)

Partners: GTD - Ingenieria de Sistemas y Software Industrial, S.A., Barcelona, Spain; UNINOVA, Universidade Nova de Lisboa (Portugal)

Project website: [http://www.ca3-uninova.org/project\\_fl\\_mcp](http://www.ca3-uninova.org/project_fl_mcp)

2011 *KD-LADS - Knowledge Discovery in Large Data Sets*

Role: Researcher

Funding: ESA (European Space Agency)

Partners: Centro de Tecnologias e Sistemas, UNINOVA, Universidade Nova de Lisboa (Portugal), The Laboratory for Systems, Instrumentation and Modeling in Science and Technology for Space and the Environment (SIM), Universidade de Lisboa (Portugal); and Geneva Observatory (Switzerland).

Project website: [http://www.ca3-uninova.org/project\\_kdlads](http://www.ca3-uninova.org/project_kdlads)

2001 *EELI: Evolution and Ecology of Interacting Infohabitants*

Role: Researcher

Funding: 6<sup>o</sup> Framework Programme (European Commission)

Partners: Imperial College, London, UK; Eindhoven University of Technology, Eindhoven, Holland; and Universidade Nova de Lisboa, Lisbon, Portugal.

Project website: [http://www.ca3-uninova.org/project\\_eeii](http://www.ca3-uninova.org/project_eeii)

### **Honors and Awards**

2014-2017 FCT Researcher Fellow Starting Grant from the FCT (Portuguese national funding agency for science, research and technology); one of 209 applicants funded from 1480 applicants

2012-2014 Wellcome-II Fellowship from the FCT (declined)

2010-2013 Post-doctoral grant from the FCT

2007-2008 PhD scholarship from the Calouste Gulbenkian Foundation

2003-2008 PhD scholarship from the Fulbright Commission Portugal

2003-2007 PhD scholarship from the FCT

2003 PhD scholarship from the Calouste Gulbenkian Foundation (declined)

2001 PhD scholarship from the FCT

1998 Best Student Award in Informatics Engineering from Universidade Nova de Lisboa