

### PERSONAL DETAILS

**Name:** Laura Caterina Schmalzl  
**Date of birth:** 19/05/1976  
**Country of birth:** Austria  
**Citizenship:** Italian and Australian  
**Current residency:** Sweden  
**Languages:** Italian, German, Ladino, English and Spanish



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### CONTACT DETAILS

**Current Address:** Brain, Body & Self Laboratory  
Department of Neuroscience  
Karolinska Institute  
Retzius Väg 8  
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### CURRENT POSITION

**2010 - present** Post-doc  
Institution: Brain, Body & Self Laboratory, Department of Neuroscience,  
Karolinska Institute, Stockholm, Sweden  
Supervisor: Assoc Prof Henrik Ehrsson

### PREVIOUS APPOINTMENTS

- 2008 - 2009**    Post-doc  
Institution: Macquarie Centre for Cognitive Science (MACCS), Sydney, Australia  
Supervisor: Assoc Prof Mark Williams
- 2005 - 2006**    Research Assistant (casual appointment)  
Institution: Macquarie Centre for Cognitive Science (MACCS), Sydney, Australia  
Supervisor: Dr Romina Palermo
- 2002 - 2004**    Research Assistant (casual appointment)  
Institution: Macquarie Centre for Cognitive Science (MACCS), Sydney, Australia  
Supervisor: Assoc Prof Lyndsey Nickels
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### ACADEMIC QUALIFICATIONS

- 2008**            PhD in Cognitive Science  
Institution: Macquarie Centre for Cognitive Science (MACCS), Sydney, Australia  
Supervisors: Prof Max Coltheart, Dr Romina Palermo and Dr Irina Harris  
Thesis: Fractionating face processing in congenital prosopagnosia
- 2004**            MA in Clinical Neuropsychology  
Institution: Macquarie University, Sydney, Australia  
Supervisors: Prof Max Coltheart and Assoc Prof Lyndsey Nickels  
Thesis: Treatment of irregular word spelling in acquired dysgraphia: Selective benefit from visual mnemonics
- 2000**            BA (Hons) in Psychology  
Institution: University of Padua, Italy  
Supervisor: Prof Carlo Umiltà  
Thesis: The relation of motor symptoms, cognitive deficits and depression in patients with Parkinson's Disease

### CLINICAL TRAINING

- 2002 - 2003** Clinical internships completed as part of the requirements for the Master of Clinical Neuropsychology and professional habilitation as a Clinical Neuropsychologist in Australia:  
- The Children's Hospital at Westmead, Sydney, Australia  
- Gosford Hospital, Gosford, Australia  
- MS Society of NSW, Sydney, Australia  
- Westmead Hospital, Sydney, Australia
- 2000 - 2001** Clinical internship completed as part of the requirements for the professional habilitation as a Psychologist in Italy:  
- S. Camillo Hospital, Venice, Italy
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### TEACHING

- 2009** Guest lecturer for the Cognitive Neuropsychology course of the Masters in Clinical Neuropsychology at Macquarie University chaired by Prof Anne Castles
- 2005 - 2006** Tutor for a second year Psychology course (Cognition and Perception) at Macquarie University chaired by Assoc Prof Veronika Coltheart
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### STUDENT SUPERVISION

#### PhD projects

- 2008 - 2010** Davide Rivolta: PhD project co-supervised with Romina Palermo, Mark Williams and Max Coltheart at MACCS

#### Other projects

- 2011** Erik Thomke: Summer student project supervised at the Karolinska Institute

### **OTHER WORK RELATED EXPERIENCE**

- 2007 - 2010** Coordination of the prosopagnosia research at MACCS (<http://www.maccs.mq.edu.au/research/projects/prosopagnosia/index.htm>) in collaboration with Dr Romina Palermo
- 2005 - 2007** Convening of monthly meetings of a Visual Cognition Discussion Group at MACCS
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### **PROFESSIONAL AFFILIATIONS**

- 2004 - present** Registered Psychologist (NSW Psychologists Registration Board)  
ID: PS0086064
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### **MEMBERSHIPS**

- 2006 - present** Australasian Experimental Psychology Society
- 2010 - present** Cognitive Neuroscience Society (USA)

## PUBLICATIONS

### Published papers

**Schmalzl, L.**, Zopf, R., & Williams, M. A. (2012). From head to toe: Evidence for selective brain activation reflecting visual perception of whole individuals. *Frontiers in Human Neuroscience*, 6:108, doi: 10.3389/fnhum.2012.00108.

Rivolta, D., Palermo, R., **Schmalzl, L.**, & Williams, M. A. (2012). Investigating the features of the M170 in congenital prosopagnosia. *Frontiers in Human Neuroscience*, 6:45, doi: 10.3389/fnhum.2012.00045.

Rivolta, D., Palermo, R., **Schmalzl, L.**, & Williams, M. A. (2012). An early category-specific neural response for the perception of both places and faces. *Cognitive Neuroscience*, 3, 45-51.

Rivolta, D., Palermo, R., **Schmalzl, L.**, & Coltheart, M. (2012). Covert face recognition in congenital prosopagnosia: A group study. *Cortex*, 48, 344-352.

**Schmalzl, L.**, Thomke, E., Ragnö, C., Nilseryd, M., Stockselius, A., & Ehrsson, H. H. (2011). "Pulling telescoped phantoms out of the stump": Manipulating the perceived position of phantom limbs using a full-body illusion. *Frontiers in Human Neuroscience*, 5:121, doi: 10.3389/fnhum.2011.00121.

**Schmalzl, L.**, & Ehrsson, H. H. (2011). Experimental induction of a perceived "telescoped" limb using a full-body illusion. *Frontiers in Human Neuroscience*, 5:34, doi: 10.3389/fnhum.2011.00034.

Rivolta, D., **Schmalzl, L.**, Palermo, R., & Coltheart, M. (2010). Semantic information can facilitate covert face recognition in congenital prosopagnosia. *Journal of Clinical and Experimental Neuropsychology*, 32, 1002-1016.

Wilson, C. E., Palermo, R., **Schmalzl, L.**, & Brock, J. (2010). Specificity of impaired facial identity recognition in children. *Cognitive Neuropsychology*, 27, 1-30.

Palermo, R. **Schmalzl, L.**, Mohamed, A., Bleasel, A., & Miller, L. (2010). The impact of unilateral amygdala lesions on the detection of brief backward-masked fearful facial expressions. *Journal of Clinical and Experimental Neuropsychology*, 32, 123-131.

Bowles, D. C., McKone, E., Dawel, A., Duchaine, B., Palermo, R., **Schmalzl, L.**, Rivolta, D., Wilson C. E., & Yovel, G. (2009). Diagnosing prosopagnosia: Effects of aging, sex, and participant-stimulus ethnic match on the Cambridge Face Memory Test and Cambridge Face Perception Test. *Cognitive Neuropsychology*, 26, 423-455.

**Schmalzl, L.**, Palermo, R., & Harris, I., & Coltheart, M. (2009). Face inversion superiority in a case of prosopagnosia following congenital brain abnormalities: What can it tell us about the specificity and origin of face processing mechanisms? *Cognitive Neuropsychology*. 26, 286-306.

**Schmalzl, L.**, Palermo, R., Green, M., Brunsdon, R., & Coltheart, M. (2008). Training of familiar face recognition and visual scan paths for faces in a child with congenital prosopagnosia. *Cognitive Neuropsychology*, 25, 704-729.

**Schmalzl, L.,** Palermo, R., & Coltheart, M. (2008). Cognitive heterogeneity in genetically-based prosopagnosia: A family study. *Journal of Neuropsychology*, 2, 99-117.

**Schmalzl, L.,** & Nickels, L. (2006). Treatment of irregular word spelling in acquired dysgraphia: Selective benefit from visual mnemonics. *Neuropsychological Rehabilitation*, 16, 1-37.

### Published abstracts

Rivolta, D., **Schmalzl, L.,** Palermo, R., & Williams, M. A. (2011). Multi-voxel pattern analysis of fMRI data reveals abnormal anterior temporal lobe activity in congenital prosopagnosia (Abstract). *Perception*, 40 (Suppl.), 163.

**Schmalzl, L.,** & Ehrsson, H. H. (2010). Experimental induction of a perceived "telescoped" limb using a body swap illusion (Abstract). *Frontiers in Neuroscience*, <http://www.frontiersin.org/Journal/MySubmissionViewDetails.aspx?stage=100&articleid=8786&submissionid=8786>.

Rivolta, D., Williams, M. A., **Schmalzl, L.,** & Palermo, R. (2010). Faces and places in the brain: An MEG investigation (Abstract). *Journal of Vision*, doi: 10.1167/10.7.1266.

Rivolta, D., Palermo, R., **Schmalzl, L.,** & Coltheart, M. (2009). The cognitive utility of investigating covert face recognition in congenital prosopagnosia (Abstract). *Combined Abstracts of 2009 Australian Psychology Conferences*, ISBN: 978-0-909881-40-5.

Williams, M. A., & **Schmalzl, L.** (2008). An examination of the neural markers of face perception using magnetoencephalography (MEG) (Abstract). *Perception*, 37 (Suppl.), 160.

**Schmalzl, L.,** Palermo, R., & Green, M., Brunsdon, R., & Coltheart, M. (2008). Training of familiar face recognition and visual scan paths for faces in a child with congenital prosopagnosia (Abstract). *Journal of Vision*, 8, 412.

**Schmalzl, L.,** Palermo, R., & Green, M., Brunsdon, R., & Coltheart, M. (2008). Training of familiar face recognition and visual scan paths for faces in a child with congenital prosopagnosia (Abstract). *Australian Journal of Psychology*, 60 (Suppl.), 98.

Williams, M. A., & **Schmalzl, L.** (2008). An examination of the neural markers of face perception using magnetoencephalography (MEG) (Abstract). *Australian Journal of Psychology*, 60 (Suppl.), 104.

Palermo, R., **Schmalzl, L.,** Mohamed, A., Bleasel, A., & Miller, L. (2007). The impact of amygdala lesions on the detection of fearful facial expressions (Abstract). *Perception*, 36 (Suppl.), 151.

Palermo, R., **Schmalzl, L.,** Mohamed, A., & Miller, L. (2007). The impact of amygdala lesions on the detection of fearful facial expressions (Abstract). *Australian Journal of Psychology*, 59 (Suppl.), 52.

**Schmalzl, L.,** Palermo, R., & Coltheart, M. (2006). Congenital prosopagnosia: A family study (Abstract). *Perception*, 35 (Suppl.), 133.

**Schmalzl, L.,** Palermo, R., & Coltheart, M. (2006). Congenital prosopagnosia: A family study (Abstract). *Australian Journal of Psychology*, 58 (Suppl.), 89.

Palermo, R., **Schmalzl, L.,** & Miller, L. (2006). Affective priming from faces: The influence of spatial frequency, prime duration and amygdala damage (Abstract). *Australian Journal of Psychology*, 58 (Suppl.), 87.

**Schmalzl, L., & Nickels, L. (2004).** Treatment of irregular word spelling in acquired dysgraphia: Selective benefit from visual mnemonics (Abstract). *Brain Impairment*, 5 (Suppl.), 100.

### Other publications

**Schmalzl, L. (2006).** Cover design – *Cortex*, 42 (3).

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## CONFERENCE PRESENTATIONS

Rivolta, D., **Schmalzl, L.**, Palermo, R., & Williams, M. (2011, August). *Multi-voxel pattern analysis of fMRI data reveals abnormal anterior temporal lobe activity in congenital prosopagnosia*. Poster presented at the 34<sup>th</sup> European Conference on Visual Perception (ECVP), Toulouse, France.

**Schmalzl, L.**, & Ehrsson, H. H. (2011, April). *Experimental induction of a perceived “telescoped” limb using a full-body illusion*. Poster presented at the 18th Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, California.

**Schmalzl, L.**, & Ehrsson, H. H. (2010, September). *Experimental induction of a perceived “telescoped” limb using a body swap illusion*. Poster presented at the conference “Body Representation in Physical and Virtual Reality with Application to Rehabilitation”, Monte Verità, Switzerland.

Rivolta, D., Williams, M. A., **Schmalzl, L.**, & Palermo, R. (2010, May). *Faces and places in the brain: An MEG investigation*. Poster presented at the 10th Annual Meeting of the Visual Sciences Society (VSS), Naples, Florida.

Rivolta, D., Palermo, R., **Schmalzl, L.**, & Coltheart, M. (2009, April). *The cognitive utility of investigating covert face recognition in congenital prosopagnosia*. Paper presented at the 36<sup>th</sup> Australasian Experimental Psychology Conference (EPC), Wollongong, Australia.

Williams, M. A., & **Schmalzl, L.** (2008, August). *An examination of the neural markers of face perception using magnetoencephalography (MEG)*. Poster session presented at the 31<sup>st</sup> European Conference on Visual Perception (ECVP), Utrecht, Netherlands.

**Schmalzl, L.**, Zopf, R., & Williams, M. A. (2008, June). *Neural correlates of face and body processing: MEG and fMRI investigations*. Paper presented at the international cognitive neuroscience summer school “The Sense of Body”, Bologna, Italy.

**Schmalzl, L.**, Palermo, R., & Green, M., Brunsdon, R., & Coltheart, M. (2008, May). *Training of familiar face recognition and visual scan paths for faces in a child with congenital prosopagnosia*. Poster presented 8th Annual Meeting of the Visual Sciences Society (VSS), Naples, Florida.

**Schmalzl, L.**, Palermo, R., & Green, M., Brunsdon, R., & Coltheart, M. (2008, April). *Training of familiar face recognition and visual scan paths for faces in a child with congenital prosopagnosia*. Paper presented at the 35<sup>th</sup> Australasian Experimental Psychology Conference (EPC), Perth, Australia.

Williams, M. A., & **Schmalzl, L.** (2008, April). *An examination of the neural markers of face perception using magnetoencephalography (MEG)*. Paper presented at the 35<sup>th</sup> Australasian Experimental Psychology Conference (EPC), Perth, Australia.

Palermo, R., **Schmalzl, L.**, Mohamed, A., Bleasel, A. & Miller, L. (2007, August). *The impact of unilateral amygdala lesions on the detection of brief backward-masked fearful facial expressions*. Poster session presented at the 30th European Conference on Visual Perception (ECVP), Arezzo, Italy.

Palermo, R., **Schmalzl, L.**, Mohamed, A., & Miller, L. (2007, April). *The impact of amygdala lesions on the detection of fearful facial expressions*. Paper presented at the 34<sup>th</sup> Australasian Experimental Psychology Conference (EPC), Canberra, Australia.

**Schmalzl, L.**, Palermo, R., & Coltheart, M. (2006, September). *Cognitive heterogeneity in genetically-based prosopagnosia: A family study*. Poster session presented at the Italian Psychological Association (AIP) Annual Meeting, Rovereto, Italy.

**Schmalzl, L.**, Palermo, R., & Coltheart, M. (2006, August). *Congenital prosopagnosia: A family study*. Poster session presented at the 29<sup>th</sup> European Conference on Visual Perception (ECVP), St. Petersburg, Russia.

**Schmalzl, L.**, Palermo, R., & Coltheart, M. (2006, July). *Fractionating face processing in congenital prosopagnosia: A family study*. Paper presented at the Cognitive Neuropsychology and Cognitive Neuropsychiatry Research Forum, Macquarie University, Sydney, Australia.

Palermo, R., **Schmalzl, L.**, & Miller, L. (2006, July). *Auras, affect and the amygdala*. Paper presented at the Annual meeting of the International Society for Behavioural Neuroscience, Bath Spa, UK.

Palermo, R., **Schmalzl, L.**, & Miller, L. (2006, July). *Affective priming from faces: The influence of spatial frequency, prime duration and amygdala damage*. Paper presented at the Experimental Psychology Society Meeting (EPS), Plymouth, UK.

**Schmalzl, L.**, Palermo, R., & Coltheart, M. (2006, April). *Congenital prosopagnosia: A family study*. Paper presented at the 33<sup>rd</sup> Australasian Experimental Psychology Conference (EPC), Brisbane, Australia.

Palermo, R., **Schmalzl, L.**, & Miller, L. (2006, April). *Affective priming from faces: The influence of spatial frequency, prime duration and amygdala damage*. Paper presented at the 33<sup>rd</sup> Australasian Experimental Psychology Conference (EPC), Brisbane, Australia.

**Schmalzl, L.**, Coltheart, M., Palermo, R., Harris, I., & Brunsdon, R. (2006, March). *Developmental and congenital prosopagnosia*. Paper presented at the Inaugural Conference of the Developmental Cognitive Neuropsychology Research Unit, The Children's Hospital at Westmead, Sydney, Australia.

**Schmalzl, L.**, & Nickels, L. (2004, July). *Treatment of irregular word spelling in acquired dysgraphia: Selective benefit from visual mnemonics*. Poster session presented at the Australian Society for the Study of Brain Impairment (ASSBI) and International Neuropsychological Society (INS) Annual Meeting, Brisbane, Australia.



### INVITED TALKS

- Schmalzl, L.** (2012, May). *Manipulating phantom limb sensations using multisensory illusions*. Seminar held at the Nordiskt tvärfackligt forum för dysmeli och armamputationer, Örebro, Sweden.
- Schmalzl, L.** (2011, November). *Manipulating the perceived position of limbs (and phantom limbs) using a full-body illusion*. Seminar held at the Department of Clinical Neuroscience, Karolinska Institute, Stockholm, Sweden.
- Schmalzl, L.** (2011, September). *Using a full-body illusion to manipulate the perceived position of limbs*. Seminar held at the Centre for Brain and Cognition, University of California San Diego, La Jolla, California.
- Schmalzl, L.** (2011, March). *Experimental induction of a perceived "telescoped" limb using a full-body illusion"*. Seminar held as part of the Stockholm Brain Institute Research Seminar series, Department of Neuroscience, Karolinska Institute, Stockholm, Sweden.
- Schmalzl, L.** (2009, September). *Case studies of prosopagnosia and fMRI investigations of visual face and body perception*. Seminar held at the Laboratory of Cognitive Neuroscience, Brain-Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland.
- Schmalzl, L.** (2009, August). *Visual face and body perception: Neuropsychological and neuroimaging investigations*. Seminar held at the Department of Neuroscience, Karolinska Institute, Stockholm, Sweden.
- Schmalzl, L., Palermo, R., & Coltheart, M.** (2006, September). *Congenital prosopagnosia: Cognitive heterogeneity in genetically-impaired face processing*. Seminar held at the University of Milan Bicocca, Italy.
- Schmalzl, L., Palermo, R., & Coltheart, M.** (2006, September). *Fractionating face perception: Cognitive heterogeneity in genetically-based prosopagnosia*. Seminar held at the University of Padua, Italy.
- Schmalzl, L., Palermo, R., & Coltheart, M.** (2006, August). *Cognitive heterogeneity in genetically-based prosopagnosia: A family study*. Seminar held at the Institute of Cognitive Neuroscience, University College London, UK.

## GRANTS

Karolinska Institute Travel Fund (2011), **Schmalzl, L.** (SEK 9000)

MACCS Postgraduate Grant (2007), **Schmalzl, L.** (\$ 3000).

Macquarie University Postgraduate Research Fund (PGRF) (2006), **Schmalzl, L.** (\$ 4000).

MACCS Postgraduate Grant (2006), **Schmalzl, L.** (\$ 1000).

MACCS Postgraduate Grant (2005), **Schmalzl, L.** (\$ 1000).

MACCS Postgraduate Grant (2004), **Schmalzl, L.** (\$ 1000).

Research Areas and Centres of Excellence Awards (RAACE) Scholarship (2004 - 2007),  
**Schmalzl, L.** (\$ 64,750).

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## AWARDS

Award for Best Contribution at the Conference "Body Representation in Physical and Virtual Reality with Application to Rehabilitation", Monte Verità, Switzerland (2010, September).  
**Schmalzl, L.**

Macquarie University's Division of Linguistics & Psychology Higher Degree Research Excellence Award (2007), **Schmalzl, L.**

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## MEDIA INTERACTION

ABC TV, 19 July 2007 (<http://www.abc.net.au/catalyst/stories/s1982889.htm>)

Macquarie University "Postgrad and Beyond" e-Newsletter, 1 June 2006

ABC Radio National, 18 February 2006

ABC Radio North Coast, 9 February 2006

ABC 702 Sydney, 6 February 2006

Sydney Morning Herald, 4 February 2006