

# Martin M. Monti, Ph.D.

<http://montilab.psych.ucla.edu/>

GENERAL INFORMATION	UCLA Department of Psychology 7461E Franz Hall Los Angeles, CA 90095	Citizenship: Italian, US DoB: 24 <sup>th</sup> of May 1978 Voice: +1 (310) 825-8546 E-mail: <a href="mailto:monti@psych.ucla.edu">monti@psych.ucla.edu</a>
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Coma, Vegetative State, Minimally Conscious State, Consciousness, Severe Brain Injury</li><li>• Language &amp; Thought, Syntax, Human Reasoning, Mental Arithmetic</li><li>• fMRI Methods &amp; Statistical Analysis</li></ul>	
EMPLOYMENT	<b>Associate Professor, University of California, Los Angeles, CA, USA</b> Jul 2016 - Present <i>Department of Psychology</i> <i>Joint appointments: Department of Neurosurgery, Department of Psychiatry &amp; Behavioral Sciences</i>	
	<b>Assistant Professor, University of California, Los Angeles, CA, USA</b> Jan 2011 - Jun 2016 <i>Department of Psychology</i> <i>Joint appointments: Department of Neurosurgery, Department of Psychiatry &amp; Behavioral Sciences</i>	
	<b>MRC Cognition &amp; Brain Sciences Unit, Cambridge, UK</b> Sep 2007 - Dec 2010 <i>Post-Doctoral Scientist (Career Development Fellowship)</i>	
OTHER POSITIONS	<b>Coma Research Center, Ospedale Neurologico Carlo Besta, Milan Italy</b> Oct 2012 - Jul 2013 <i>External consultant for project on Coma and Vegetative State</i>	
	<b>U.S. Department of Veteran's Affairs</b> Jan 2011 - Jun 2013 <i>TBI and Stroke Scientific Merit Review Panel (External Reviewer)</i>	
	<b>Center for Experimental and Applied Epistemology (CRESA)</b> Sep 2011 - Present <i>Research affiliate, Università Vita-Salute San Raffaele, Milan, Italy</i>	
EDUCATION	<b>Princeton University, Dept. of Psychology, Princeton NJ, USA</b> Sep 2003 - Jun 2007 Ph.D. Psychology & Neuroscience, June 2007 M.A. Psychology & Neuroscience, January 2006	
	<b>Università L. Bocconi, Milan, Italy</b> Sep 1998 - Jun 2002 <i>Laurea, Cum Laude, Discipline Economiche e Sociali (Economics), June 2002</i>	
FUNDING (PI)	<b>Tiny Blue Dot Foundation, Research Grant</b> April 2016 - March 2019 <i>Measuring consciousness: From theory to practice.</i> USD 417,112. <sup>00</sup>	
	<b>UCLA Academic Senate, Faculty Research Grant</b> May 2015 - Jun 2016 <i>From correlation to causation: testing the role of language in human cognition.</i> USD 9,600. <sup>00</sup>	
	<b>Dana Foundation Clinical Neuroscience Research</b> Apr 2014 - Oct 2018 <i>Filling the treatment gap: Ultrasonic thalamic stimulation in disorders of consciousness following severe brain injury.</i> USD 300,000. <sup>00</sup>	
	<b>UCLA Academic Senate, Faculty Research Grant</b> Aug 2013 - Jun 2014 <i>The representation of meaning and structure in the human brain.</i> USD 9,000. <sup>00</sup>	
	<b>James S. McDonnell Foundation Scholar Award</b> Sep 2011 - Jun 2017 <i>Cognitive Processing and Awareness at the Lower Boundaries of Consciousness: Insights from the Vegetative State.</i> USD 600,000. <sup>00</sup>	
	<b>UCLA Transdisciplinary Seed Grant</b> Sep 2011 - Jul 2013 <i>Language, Music and the Brain.</i> USD 20,000. <sup>00</sup>	
FUNDING (CO-PI)	<b>PE 002359287 Ministero della Salute (Italia) (PI: S. Ferraro, C. Besta)</b> Sep 2015 - Aug 2018 <i>Structural biomarkers of awareness and wakefulness in disorders of consciousness</i> EUR 239,508. <sup>00</sup>	
	<b>ONR BAA 13-001 BRC Office of Naval Research (PI: P. Reber, NWU)</b> Aug 2013 - Dec 2015 <i>Enhancing intuitive decision making through implicit learning.</i> USD 2,850,000. <sup>00</sup>	

<b>UCLA Center for Autism Research and Treatment (PI: H. Lu, UCLA)</b>	<b>Jun 2013 - May 2014</b>
<i>The impact of autism on action perception.</i>	USD 22,500 <sup>.00</sup>
<b>EU-FP7 ICT 2009 (PI: A. Kübler, U. Wuerzburg)</b>	<b>Sep 2009 - Jun 2013</b>
<i>Deployment of Brain-Computer Interfaces for the Detection of Consciousness in Non-Responsive Patients (DECODER).</i>	EUR 2,799,921 <sup>.00</sup>

AWARDS AND  
FELLOWSHIPS

UCLA Psychology Department **Distinguished Teaching Award** (June 2015)  
 UCLA Life Science Faculty Award for **Outstanding Research Publication**<sup>†</sup> (May 2014)  
 Association for Psychological Science (APS) **“Rising Star”** (April 2013)  
 Association of Princeton Graduate Alumni (APGA) **Teaching Award, for Excellence in Undergraduate Teaching** (2005/6) (yearly award, elected by faculty and students.)  
 Kavli Fellowship of the National Academy of Sciences (August 2015)  
 MRC Career Development Fellowship (2007/11)  
 Mathey College Graduate Fellow (2006/7)  
 Princeton Graduate School Summer Fellowship (2004)  
 Princeton University Graduate Fellowship (2003/4)  
 Lodieska Stockbridge Vaughan Fellowship (2002/3)  
 Rice University Graduate Fellowship (2002/3)  
 Friends of the Semel Travel Grant (2015)  
 Brain Travel Grant (2008)  
 Organization for Human Brain Mapping Travel Award (2008)

PUBLICATIONS

★ MONTILAB  
PERSONNEL

Coetzee J.P.★, **Monti M.M.** (*under review*) At the core of reasoning: dissociating deductive and non-deductive difficulty.  
 Chiang J.★, Rosenberg M.★, Bufford C., Stephens D., Lysy A., **Monti M.M.** (*under review*) The language of music: Common neural codes for structured sequences in music and natural language. *bioRxiv* 202382; doi: <https://doi.org/10.1101/202382>  
 Crone J.S.★, **Monti M.M.** (*forthcoming*) Consciousness. In M.H. Bornstein (Ed.), *The SAGE Encyclopedia of Lifespan Human Development*. Thousand Oaks, CA:SAGE Publications.  
 Schnakers C., **Monti M.M.** (2017) Disorders of consciousness after severe brain injury: Therapeutic options. *Current Opinion in Neurology*.  
 Crone J.S.★, **Monti M.M.** (2017) Linking Complex Alterations in Functional Network Connectivity to Disorders of Consciousness. In C. Schnakers, S. Laureys (Eds.), *Coma and Disorders of consciousness, 2<sup>nd</sup> edition*. Springer:London.  
 Crone J.S.★, Bio B.J.★, Vespa P.M., Lutkenhoff E.S.★, **Monti M.M.** (2017) Restoration of thalamo-cortical connectivity after brain injury: recovery of consciousness, complex behavior, or passage of time? *Journal of Neuroscience Research*. [Online early view]  
 Zheng Z.S.★, Reggente N., Lutkenhoff E.S.★, Owen A.M., **Monti M.M.** (2017) Disentangling disorders of consciousness: insights from diffusion tensor imaging and machine learning. *Human Brain Mapping* [Epub ahead of print].  
**Monti M.M.** (2017) The role of language in structure-dependent cognition. In Mody M. (Ed.) *Neural Mechanisms of Language*, Springer:New York, NY. ISBN: 978-1-4939-7323-1.  
 DeWolf M., Chiang J.N.★, Bassok M., Holyoak K.J., **Monti M.M.** (2016) Neural Representations of Magnitude for Natural and Rational Numbers. *Neuroimage*, 141:304-312.  
**Monti M.M.**, Schnakers C., Korb A.S., Bystritsky A., Vespa P.M. (2016) Non-invasive ultrasonic thalamic stimulation in disorders of consciousness after severe brain injury: a first-in-man report. *Brain Stimulation*, 9(6):940-941.  
 Crone J.S.★, Lutkenhoff E.S.★, Bio B.★, Laureys S., **Monti, M.M.**(2016) Testing proposed neuronal models of effective connectivity within the cortico-basal ganglia-thalamo-cortical loop during loss of consciousness. *Cerebral Cortex* [Advanced online publication].  
 Thurman S.M., van Boxtel J.J., **Monti M.M.**, Chiang J.N.★, Lu H. (2016) Neural adaptation in pSTS correlates with perceptual aftereffects to biological motion and with autistic traits. *Neuroimage* 136:149-61.

- Monti M.M.**, Sannita W.G. (2016), *Brain Function and Responsiveness in Disorders of Consciousness*, Springer International Publishing: Switzerland. DOI 10.1007/978-3-319-21425-2.
- Lutkenhoff E.S.★, **Monti, M.M.** (2016) Brain Responsiveness After Severe Brain Injury: Revolutions and Controversies. In **M.M. Monti** and W.G. Sannita (eds.), *Brain Function and Responsiveness in Disorders of Consciousness*, Springer International Publishing: Switzerland. DOI 10.1007/978-3-319-21425-2.
- Lutkenhoff E.S.★, Chiang J.★, Tshibanda L., Kamau E., Kirsch M., Pickard J.D., Laureys S., Owen A.M., **Monti M.M.** (2015) Thalamic and extrathalamic mechanisms of consciousness after severe brain injury. *Annals of Neurology* 78(1):68-76.
- Monti M.M.**, Rosenberg M.★, Finoia P., Kamau E., Pickard J.P., Owen A.M. (2015) Thalamo-frontal connectivity mediates top-down cognitive functions in disorders of consciousness. *Neurology*, 84(2):167-73. [With *accompanying editorial* by S. Goldman & N. Schiff, Functional imaging to uncover willful brain behavior in non-communicative patients, *Neurology* 84(2):1-2.]
- Crone J.S.★, Schurz M., Höller Y., Bergmann J., **Monti M.M.**, Schmid E., Trinka E., Kronbichler M. (2015) Impaired consciousness is linked to changes in effective connectivity of the posterior cingulate cortex within the default mode network. *NeuroImage*, 110:101-109.
- Monti M.M.** (2015) Disorders of consciousness. In *Emerging Trends in the Social and Behavioral Sciences*, Robert Scott and Stephen Kosslyn (eds.), Hoboken, NJ: John Wiley and Sons, 1-13.
- Lutkenhoff E.S.★, Rosenberg M.★, Chiang J.★, Zheng R.★, Pickard J.D., Owen A.M., **Monti M.M.** (2014) Optimized brain extraction script for pathological brains (optiBET). *PLoS ONE* 9(12): e115551. doi:10.1371/journal.pone.0115551
- Chennu S., Finoia P., Kamau E., Allanson J., Williams G.B., **Monti M.M.**, Menon D.K., Pickard J.D., Owen A.M., Bekinschtein T.A. (2014) Spectral signatures of reorganised brain networks in disorders of consciousness. *PLoS Computational Biology*, 10(10): e1003887.
- Guger G., Sorger B., Noirhomme Q., Naci L., **Monti M.M.**, Real R., *et al* (2014) Brain-computer interfaces for assessment and communication in disorders of consciousness. *Emerging Theory and Practice in Neuroprosthetics*. IGIGLOBAL:Hershey, PA.
- Sandrone S., Bacigaluppi M., Galloni M.R., Cappa S.F., Moro A., Catani M., Filippi M., **Monti M.M.**, Perani D., Martino G. (2014) Weighing brain activity with the balance: Angelo Mosso's original manuscripts come to light. *Brain*, 137(Pt 2):621-33.
- Lutkenhoff E.S.★, McArthur D.L., Hua X., Thompson P.M., Vespa P.M., **Monti M.M.** (2013) Thalamic atrophy in antero-medial and dorsal nuclei correlates with six-months outcome after severe brain injury. *NeuroImage: Clinical*, 3:396-404.
- Monti M.M.**, Lutkenhoff E.S.★, Rubinov M., Boveroux P., Vanhaudenhuyse A., Gosseries O., Bruno M-A., Noirhomme Q., Boly M., Laureys S. (2013) Dynamic change of global and local information processing in propofol-induced loss and recovery of consciousness. *PLoS Computational Biology*, 9(10).<sup>†</sup>
- Chennu S., Finoia P., Kamau E., **Monti M.M.**, Allanson J., Pickard J.D., Owen A.M., Bekinschtein T. (2013) Dissociable Endogenous and Exogenous Attention in Disorders of Consciousness. *NeuroImage: Clinical*, 3:450-461.
- Monti M.M.** (2013) Editorial – Ethics, neuroimaging and disorders of consciousness: What is the question? *American Journal of Bioethics, Neuroscience*, 4(4):1-2.
- Torrìsì S., Moody T.D., Vizueta N., Thomason M.E., **Monti M.M.**, Townsend J.D., Bookheimer S.Y., Altshuler L.L. (2013) Differences in resting corticolimbic functional connectivity in bipolar I euthymia. *Bipolar Disorders*, 15(2):156-166.
- Monti M.M.**, Pickard J.D., Owen A.M. (2013) Visual cognition in disorders of consciousness: From V1 to top-down attention, *Human Brain Mapping*, 34(6):1245-53.
- Monti M.M.**, Parsons L.M., Osherson D.N. (2012) Response to Tzourio-Mazoyer and Zago: yes, there is a neural dissociation between language and reasoning. *Trends in Cognitive Sciences*, 16(10):495-496.
- Monti M.M.**, Parsons L.M., Osherson D.N. (2012) Thought beyond language: neural dissociation of arithmetic and natural language. *Psychological Science*. 23(8): 914-922.
- Monti M.M.** (2012) Cognition in disorders of consciousness, *Annual Reviews of Clinical Psychology*, 8:431-454.

- Monti M.M.**, Osherson D.N. (2012) Language, logic and the brain, *Brain Research*, 1428:33-42.
- Naci L., **Monti M.M.**, Cruse D., Kübler A., Sorger B., Goebel R., Kotchoubey B., Owen A.M. (2012) Brain computer interfaces for communication with non-responsive patients, *Annals of Neurology*, 72(3):312-23.
- Monti M.M.** (2011) Statistical analysis of fMRI time-series: A critical evaluation of the GLM approach, *Frontiers in Human Neuroscience*, 5(28).
- Cruse D., **Monti M.M.**, Owen A.M. (2011) Neuroimaging in disorders of consciousness: contributions to diagnosis and prognosis, *Future Neurology* 6(2): 291-299.
- Monti M.M.**, Vanhaudenhuyse A., Coleman M.R., Boly M., Pickard J., Tshibanda, J-F., Owen, A.M., Laureys, S. (2010) Willful modulation of brain activity in disorders of consciousness, *New England Journal of Medicine* 362(7):579-589. [With *accompanying editorial* by A.H. Ropper, Cogito Ergo Sum by fMRI, *New England Journal of Medicine* 362(7):648.]
- Fernández-Espejo D., Bekinschtein T., **Monti M.M.**, Pickard J.D., Junque C., Owen A.M., Coleman M.R. (2010) Diffusion Weighted Imaging Distinguishes the Minimally Conscious from the Vegetative State, *NeuroImage* 54:103-112.
- Monti M.M.**, Laureys S., Owen A.M. (2010) The Vegetative State, *BMJ* 341:c3765.
- Hampshire A., Chamberlain S., **Monti M.M.**, Duncan J., Owen A.M. (2010) The Role of the Right Inferior Frontal Gyrus: Inhibition and Attentional Control, *NeuroImage* 50(3):1313-9.
- Monti M.M.**, Owen A.M. (2010) Looking for consciousness, the aware mind in the motionless body, *The Psychologist* 23(6):478-481.
- Monti M.M.**, Owen A.M. (2010) Behavior in the brain: using functional neuroimaging to assess residual cognition and awareness after severe brain injury, *Journal of Psychophysiology* 24:76-82.
- Monti M.M.**, Parsons L.M., Osherson D.N. (2009) The Boundaries of Language and Thought in Deductive Inference, *Proceedings of the National Academy of Sciences* 106:12554-12559.
- Monti M.M.**, Coleman M.R., Owen A.M. (2009) fMRI and the Vegetative State: Solving the Behavioral Dilemma? *Annals of the New York Academy of Sciences* 1157:81-89.
- Monti M.M.**, Coleman M.R., Owen A.M. (2009) Executive Functions in the Absence of Behavior: Functional Imaging of the Minimally Conscious State, *Progress in Brain Research* 117:249-260.
- Monti M.M.**, Vanhaudenhuyse A., Coleman M.R., Boly M., Owen, A.M., Laureys, S. (2009) Using fMRI to diagnose disorders of consciousness in the absence of behavior, *Society for Neuroscience Abstracts*, 804.4.
- Coleman M.R., Bekinschtein T., **Monti M.M.**, Owen A.M., Pickard J.D. (2009) A Multi-Modal Approach to the Assessment of Patients with Disorders of Consciousness, *Progress in Brain Research* 177:231-248.
- Parsons L.M., Osherson D.N., **Monti M.M.** (2009) Language and thought: Neural basis of arithmetic and linguistic inference, *Society for Neuroscience Abstracts*, 217.6.
- Monti M.M.**, Parsons L.M., Martinez M.J., Osherson D.N. (2007) Functional Neuroanatomy of Deductive Inference: A Language-Independent Distributed Network, *NeuroImage* 37:1005-1016.
- Monti M.M.**, Parsons L.M., Osherson D.N. (2007) The Role of Language in Deductive Reasoning. *Society for Neuroscience Abstracts*, 126.1.
- Monti M.M.**, Mura G. (2007) Gli effetti delle emozioni nelle interazioni negoziali. In Diamantini D. & Oliverio N. (Eds.) *Clienti, controparti e amici*. Guerrini e associati: Milan, Italy, 51-75.
- Parsons L.M., **Monti M.M.**, Osherson D.N. (2006) Functional Neuroanatomy of Deductive Reasoning, *Society for Neuroscience Abstracts*, 310.1.
- Monti M.M.**, Grant S., Osherson D.N. (2005) A Note on Concave Utility Functions, *Mind & Society*, 4(1):85-96.
- Diamantini D., **Monti M.M.**, Pietroni D. (2002) L'impatto delle emozioni nelle interazioni negoziali. In Bellelli, G. & Curci, A. *Emozioni: Cultura, Comunicazione, Benessere*. Progedit:Bari, 237-42.

PUBLIC  
ENGAGEMENT

**TEDx Talk:** [The mystery of Consciousness and the vegetative state](#). TEDx Claremont College, Claremont, CA, February 2016.

**newspaper articles in "Il Sole 24 Ore" (Sunday 'culture & science' edition):**

Essere svegli ma non coscienti (Being awake but not conscious), 07<sup>th</sup> June, 2015.

C'è più materia grigia con il Mac (There is more brain with the Mac), 08<sup>th</sup> July, 2012.

Il cervello sa se lo spot funziona (The brain knows if the ad works), 20<sup>th</sup> May, 2012 (with M. Motterlini).  
 Tutti i colori della neurofuffa (The colors of neurofluff), 11<sup>th</sup> April, 2012 (with M. Motterlini).  
 Il caso ha le sue ragioni (Randomness has its reasons), 1<sup>st</sup> April, 2012 (with M. Motterlini).  
 La coscienza è sempre più visibile (Consciousness is easier to detect), 13<sup>th</sup> November, 2011.  
 Guarda a cosa penso – o quasi (See what I’m thinking – almost), 16<sup>th</sup> October, 2011.  
 La coscienza a colori (Coloring consciousness), 6<sup>th</sup> March, 2011.

**encyclopedia entry:** Stato di minima coscienza (The minimally conscious state). *Enciclopedia Treccani: La Mente*, Edizione 2011.

**educational materials (textbook chapter):** Fotografare il cervello mentre pensa (Seeing the brain while it thinks). In Comi G. & Kasam V. (eds) (2011) **La rivoluzione del cervello (The brain revolution)** Editrice San Raffaele:Milano, Italia, pp. 31-38.

**invited public talk:** Le rotte della coscienza. (The paths of consciousness.) *Leggendo Metropolitan*, Cagliari, Italy, June 2015.

**invited public talk:** Brain & Music. *Milan Piano City*, Milan, Italy, May 2014.

**invited public talk:** The brain at the boundaries of consciousness: coma, the vegetative state and the minimally conscience state. Given at *Bergamo Scienza*, Bergamo, Italy, October 2010 & *Rotary Club*, Lugano, Switzerland, December 2013.

**invited public talk:** Consciousness and the Vegetative State. *The Brain Forum*, Rome, Italy, April 2010.

**invited public talk:** The aware mind in the motionless body: fMRI of the vegetative state. *Cambridge Science Festival – Exploring the Brain*, Cambridge UK, March 2010.

SELECTED  
 ORAL  
 PRESENTATIONS

**Monti M.M.** Loss and Recovery of Consciousness Following Brain Injury. *Mark P. Cilo Lectureship*, Craig Hospital, Englewood CO, April 2017.

**Monti M.M.** [Denoising data with multi-echo EPI \(multi-echo EPI, multi-echo EPI, . . .\)](#) *Neuroimaging Affinity Group*, UCLA Los Angeles CA, April 2017.

**Monti M.M. Keynote Lecture:** *Recovering Consciousness after severe brain injury: From science to the clinic (and back to science)*. *International Brain Injury Association (IBIA)*, Annual Meeting, New Orleans, LA, March 2017.

**Monti M.M.** The damage after the damage: Subcortical brain pathology & recovery after severe TBI. *93<sup>rd</sup> Annual Meeting of the American Congress of Rehabilitation Medicine (ACRM)*, Chicago IL, November 2016.

**Monti M.M.** Speak to me: 18 years of neuroimaging in disorders of consciousness: what have we learned? *The Science of Consciousness (Plenary Lecture)*, Tucson AZ, April 2016; and *UCLA Brain Mapping Center Seminar Series*, Los Angeles CA, December 2016.

**Monti M.M.** [Are your analyses too parametric? That’s not Normal!](#) *Neuroimaging Affinity Group*, UCLA Los Angeles CA, April 2016.

**Monti M.M.** Cognition at the edge of awareness (introductory speaker/chair). *Indo-US Science and Technology Forum & US National Academy of Sciences*, 6<sup>th</sup> Kavli frontiers of science symposium, Irvine CA, August 2015.

**Monti M.M.** When the world dissolves into nothingness: disorders of consciousness after severe brain injury. *Robert Efron Lectureship*, Pomona College, Claremont CA, April 2015.

**Monti M.M.** Order from chaos: Return of thalamo-frontal connectivity after severe brain injury. *Society for Neuroscience*, Washington D.C., November 2014.

**Monti M.M.** Understanding disorders of consciousness after severe brain injury: 15 years of neuroimaging. *15<sup>th</sup> Annual Neuroscience of Brain Injury Conference: Research Informing Medical Treatment and Legal Practice*, Sonoma CA, November 2014.

**Monti M.M.** 15 anni di RMF nei DdC: Cosa abbiamo imparato? (“15 years of fMRI in DOC: what have we learned?”), symposium on clinical and ethical aspects of severe disorders of consciousness, *Istituto Superiore Della Sanità (Superior Institute of Health)*, Rome, Italy, October 2014.

**Monti M.M.** Disorders of Consciousness: Neuroimaging After Severe Brain Injury. *Grand Rounds*, Veteran’s Affairs Hospital, Los Angeles CA, October 2014.

**Monti M.M.** Consciousness and disorders of consciousness: A study of traumatic brain injury. *Richard Rosen Memorial Lecture, Grand Rounds*, Department of Psychiatry, UCLA, April 2014.

**Monti M.M.** Brain imaging in disorders of consciousness. *Cognitive lunch*, UC Riverside, December 2013.

**Monti M.M.** Thalamic atrophy and awareness in disorders of consciousness. *Society for Neuroscience*, San Diego, November 2013.

**Monti M.M.** Language in structure dependent cognition. *Mental notes: Music, Cognition and the Brain*, UCLA, May 2013.

**Monti M.M.** MRI in disorders of consciousness. *Imaging the Unimaginable: Ethics and Neuroimaging in Disorders of Consciousness*, Ronald Reagan Medical Center at UCLA, May 2013.

**Monti M.M.** Risonanza magnetica: introduzione e uso nella neuropsicologia cognitive (MRI: introduction and use in cognitive neuroscience). *Università Vita e Salute San Raffaele*, Milan, Italy, December 2012.

**Monti M.M.** Neuroimaging in disorders of consciousness. *UCLA Brain Mapping Center Seminars*, Los Angeles, December 2012.

**Monti M.M.** Disturbi persistenti della coscienza: inquadramento e contributo del neuroimaging. (Disorders of consciousness: overview and contributions of neuroimaging techniques) *Società Italiana di Neurologia*, Rimini – Italy, October 2012.

**Monti M.M.** Functional neuroimaging after severe brain injury. *UC Davis Neurosurgery Grand Rounds*, December 2011.

**Monti M.M.** Consciousness and cognition after severe brain injury: fMRI of the Vegetative State. *UCSD Psychology Department Colloquium*, November 2011.

**Monti M.M.** Language and structure-dependent cognition in the human brain. *Midwest PhilMath Workshop XII*, University of Notre Dame, November 2011.

**Monti M.M.** Imaging brain activation after severe TBI. *12<sup>th</sup> UC Neurotrauma Symposium*, Santa Barbara, September 2011.

**Monti M.M.** The aware mind in the still body: fMRI in disorders of consciousness. *Cognitive Lunch Series*, Claremont Graduate University, April 2011.

**Monti M.M.** Brain Imaging in Coma: fMRI. *ICU of the Future Symposium*, UCLA, January 2011.

**Monti M.M.** Disentangling the automatic from the conscious brain: fMRI of the vegetative state. *Consciousness and its Descriptors*, Limassol, Cyprus, December 2009.

Parsons L.M., Osherson D.N., **Monti M.M.** (Presenting) Language and thought: Neural basis of arithmetic and linguistic inference. *SFN Annual Meeting*, Chicago, IL, November 2009.

**Monti M.M.**, Vanhaudenhuyse A., Coleman M.R., Boly M., Owen, A.M., Laureys, S. Using fMRI to diagnose disorders of consciousness in the absence of behavior. *SFN Annual Meeting*, Chicago, IL, November 2009.

**Monti M.M.** fMRI and disorders of consciousness. *Building Bridges in Medical Science*, Cambridge UK, November 2009.

**Monti M.M.**, Coleman M.R., Owen A.M. Disentangling the automatic from the conscious brain. *Annual Meeting of the Association for the Scientific Study of Consciousness*, Berlin, Germany, June 2009.

**Monti M.M.**, Coleman M.R., Owen A.M. ‘Brain Reading’ with Real-Time fMRI: Communication via detection of brain states in the absence of motor response. *OHBM Annual Meeting*, Melbourne, AU, June 2008.

**Monti M.M.** Language, logic and the brain. *Defining Thoughts: Interdisciplinary Workshop on the Notion of Thought*. IBZ, Ruhr-Universität Bochum, Germany, June 2008.

Parsons, L.M., **Monti M.M.** (Presenting), Osherson, D.N. Functional Neuroanatomy of Deductive Reasoning. *SFN Annual Meeting*, Atlanta GA, October 2006.

**Monti M.M.** Neural Correlates of Deductive Inference, Cognitive Brown Bag Series, Psychology Department, University of British Columbia.

**Monti M.M.** Language and Thought, *Princeton-Penn Graduate Student Symposium*. November 2005.

**Monti M.M.** Logic, Language and the Brain, *Harvard University, Mind, Brain, Behavior (CBB) Graduate Conference on “The Nature of Thought”*. May, 2005.

MENTORING

*Post-doctoral scientists:*

- Evan S. Lutkenhoff, Ph.D. (09/11-present), Julia Crone, Ph.D. (10/14-present)

*Graduate Students:*

- John Coetzee (6<sup>th</sup> year), Zhong (Amy) Zheng<sup>\*</sup> (5<sup>rd</sup> year), John Dell'Italia<sup>\*♦</sup> (5<sup>rd</sup> year), Jeff Chiang<sup>☆♦</sup> (4<sup>nd</sup> year), Micah Johnson<sup>\*♦</sup> (3<sup>st</sup> year)

- <sup>\*</sup> National Science Foundation Graduate Fellowship recipient

- <sup>☆</sup> National Defense Science & Engineering Graduate Fellowship recipient

- <sup>♦</sup> NeuroImaging Training Program Fellowship (NITP) recipient

TEACHING  
EXPERIENCE

*Faculty Mentor Program – Regents Scholar Society at UCLA*

Fall 2012 - Present

*Instructor (at UCLA)*

- PSYCH296A Neuroimagers Group Meeting AY 2012/13, 2013/14
- PSYCH186D Laboratory in Functional Neuroimaging Spring 2012, 2017 Fall 2012-15
- PSYCH265 Computational Methods for Neuroimaging Winter 2011, Fall 2011-15, Spring 2017
- PSYCH120A Cognitive Psychology Winter 2012-17
- PSYCH189 Honors Seminar (120A): Language & Thought Winter 2017
- NeuroImaging Training Program (NITP), *co-organizer & lecturer* Summer 2011-15

*Co-Instructor*

Spring 2010

- “Language and Thought” module, at Anglia Ruskin University, Cambridge, UK.

*Quantitative Methods Advisor for Undergraduate Research (Princeton Univ.)*

Sep 2005 - Jun 2007

TECHNICAL  
SKILLS

- Princeton CSBMB certified MRI machine operator (3T Siemens Allegra, Syngo MR software).
- Data Analysis Software: FSL, AFNI, Brain Voyager, Stata 8.0, SPSS, Rapid Miner.
- Computer Programming Skills: Matlab, UNIX TCSH/SH Shell, Visual Basic, E-Prime, PsychoPy.

LANGUAGES

Italian (native); English (native); French (fluent)

ARTWORK

- **Company** I am the (co)founder of [Project HandSight: Art is everyone's](#). This project is aimed at developing “tactile painting” technology in order to allow blind and visually impaired individuals to experience and access a segment of the arts that they are currently largely excluded from. Part of this venture is also aimed at understanding the degree to which aesthetic experience is sensory-specific as opposed to “central” and whether it can be translated from one sensory modality to another.
- **Exhibits**
  - [CONTATTO: Sentire la pittura con le mani \(CONTACT: to see paintings through touch\)](#): Four tactile paintings exhibited at Museo di Roma, Palazzo Braschi, Rome, Italy.
  - [Raffaello, Correggio, Caravaggio: Un'esperienza tattile sulle orme di Scannelli \(Raffaello, Correggio, Caravaggio: A tactile experience on the traces of Scannelli\)](#): Four tactile paintings exhibited at Palazzo Rospigliosi in Zagarolo, Italy.
  - [Autoritratto di Van Gogh per non vedenti \(Van Gogh self-portrait for the blind.\)](#): Tactile painting of Van Gogh's self portrait exhibited at Palazzo Ducale in Genova, Italy.
- **Publications**
  - **Monti M.M. (2016)** Il cervello dell'arte: esperienza estetica, mente, e la traduzione tattile del linguaggio visivo (Art's brain: aesthetic experience, mind, and tactile translation of the visual language). In C. Occhipinti (Ed.) [Raffaello, Correggio, Cravaggio: Un'esperienza tattile sulle orme di Scannelli](#), Universitalia (*Horti Hesperidum Mostre* collection).