



Ian Charest

Education

- 2010 **Ph.D**, *Department of Psychology, University of Glasgow, Glasgow.*
- 2006 **B.Sc.**, *Département de Psychologie, Université de Montréal, Montréal.*
- 2001 **Diplôme d'études collégiales en Sciences, Lettres et Arts**, *Collège Laflèche, Trois-Rivières.*
- 1997 **Diplôme d'études secondaires Internationales**, *École secondaire De La Salle, Trois-Rivières.*

Ph.D thesis

- title *Hierarchical organisation of voice and voice gender perception*
- supervisors Professor Pascal Belin

Academic Experience

- 2010-current **Post-Doctoral Researcher**, *MRC-Cognition and Brain Sciences Unit, Cambridge.*
Object vision and population code representation.
- 2010 **Post-Doctoral Researcher**, *Voice Neurocognition Laboratory, Glasgow.*
- 2006–2010 **Ph.D Student**, *Department of Psychology, University of Glasgow, Glasgow.*
- 2006 **Training and work experience in developmental disorders including autism**, *Faculty of Psychology, University of La Havane, Cuba.*
- 2004–2006 **Research Assistant**, *Laboratoire de NeuroCognition Vocale, Université de Montréal, Montréal.*

Awards and funding

- Guarantors of Brain travel award for Human Brain Mapping, 2012.
- Human Brain Mapping "trainee abstract award", 2012.
- Career development fellowship, Medical Research Council, 2011-2014.
- Grindley Grants for Conference Attendance, 2010.
- V.I.P. Wellcome Trust Award, University of Glasgow, 2010.
- Human Brain Mapping "trainee abstract award", 2009.
- Guarantors of Brain travel award for Human Brain Mapping, 2009.
- Overseas Research Students Award Scheme, 2007.
- Postgraduate fellowship from Faculty of Information and Mathematical Science (FIMS), 2006.

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Publications

Charest, I., Pernet, C., Latinus, M., Crabbes, F., & Belin, P. Cerebral Processing of Voice Gender Studied Using a Continuous Carryover fMRI Design. (Epub ahead of press), *Cerebral Cortex*.

Bruckert, L., Bestelmeyer, P.E.G., Latinus, M., Rouger, J., **Charest, I.**, Rousselet, G.A., Kawahara, H. & Belin, P. "What sounds average is beautiful": Vocal attractiveness increases by scaling to mean of pitch and timbre. *Current Biology*, 20(2),116-120.

Charest, I., Pernet, C., Rousselet, G.A., Quiñones, I., Latinus, M., Fillion-Bilodeau, S., Chartrand, J.P. & Belin, P., Electrophysiological evidence for an early processing of human voices, *BMC Neuroscience*, 10:127.

Maurage, P., Campanella, S., Philippot, P., **Charest, I.**, Martin, S. & de Timary, P. (2009). Impaired Emotional Facial Expression Decoding in Alcoholism is Also Present for Emotional Prosody and Body Postures. *Alcohol and Alcoholism*, 44(5):476-485.

Belin, P., Fecteau, S., **Charest, I.**, Nicastro, N., Hauser, M. & Armony, J. L., (2007). Human cerebral response to animal affective vocalizations. *Proceedings of the Royal Society Series B*, 275(1634): 473–481.

Oral Presentations

Charest, I., Kievit, R., Deca, D., Kriegeskorte, N. Individually unique representational-geometry of within-and-between-category objects in human inferior temporal cortex. (Accepted) *Neuroscience 2012*, New Orleans, USA.

Charest, I., Deca, D., Kriegeskorte, N. Individually unique representations of particular objects in human inferior temporal cortex. (June 2012) *Human Brain Mapping 2012*, Beijing, China.

Charest, I. Neural correlates of voice and voice gender perception. (July 2011). Invited speaker at the Centre de Recherche de l'Université Laval Robert Giffard (CRULRG), Université Laval, invited by Dr. Shirley Fecteau, Québec.

Charest, I. Hierarchical organisation of voice and voice gender perception. (April 2010- Absence due to volcanic eruption). Invited speaker at the Department of Music Theory in the Schulich School of Music, McGill University, invited by Dr. Bruno L. Giordano, Montréal.

Charest, I. Hierarchical organisation of voice and voice gender perception. (March 2010). Invited speaker at the Centre de recherche Cerveau et Cognition (CerCo), invited by Dr. Rufin VanRullen, Toulouse.

Charest, I. Hierarchical organisation of voice and voice gender perception. (December 2009). Invited speaker at the MRC Cognition and Brain Sciences Unit (MRC CBU), invited by Dr. Nikolaus Kriegeskorte, Cambridge, UK.

Charest, I. Hierarchical cerebral representations of voice gender. (September 2009). Symposium on the Neuroscience of the Human Voice Processing, British Association for Cognitive Neuroscience annual meeting, London, UK.

Charest, I. The neural correlates of voice and voice gender. (May 2008). 5th annual congress of the Andalusia Society for Neuropsychology. Huelva, Spain. Invited Speaker.

Abstracts and posters

Charest, I., Nili, H., & Kriegeskorte, N. (2011) Between- and within-category functional localiser combining block- and event-related analysis. Human Brain Mapping. Québec.

Watson, R., Latinus, M., **Charest, I.**, Bestelmeyer, P., Crabbe, F., & Belin, P. (2011) Effects of incongruence in audiovisual gender integration: an fmri study. Human Brain Mapping. Québec.

Latinus, M., Joassin, F., Watson, R., **Charest, I.**, & Belin, P. (2011) Conjoint and independent neural coding of bimodal face/voice identity investigated with fMRI. Human Brain Mapping. Québec.

Lombardo, M. V., Kriegeskorte, N., **Charest, I.**, Ecker, C., Chakrabarti, B., Bullmore, E., Murphy, D., MRC AIMS Consortium, & Baron-Cohen, S. (2011), Using information-based functional brain mapping to detect biomarkers of autism in adults, IMFAR, San Diego, US.

Charest, I., Latinus, M., Bestelmeyer, P., Rouger, J., Van Rijsbergen, N. J., Crabbe, F., Gosselin, F., Schyns, P. G., Smith, M. L., & Belin, P. (2010) Bubbles and voice: acoustical features, behaviour and brain function linked by reverse correlation. Human Brain Mapping. Barcelona, Spain.

Watson R., Quinones I., Crabbe F., **Charest, I.**, Latinus M., Bestelmeyer P., & Belin P. (2010) Auditory Response of the Temporal Voice Areas Can Predict Memory for Voices. CNS meeting. Montréal, Québec, Canada.

Bestelmeyer, P., Maurage, P., Rouger, J., **Charest, I.**, Crabbe, F., & Belin, P. (2010) Two-step perception of negative auditory emotions using a continuous carry over fMRI design. Human Brain Mapping. Barcelona, Spain.

Watson R., Quinones I., Crabbe F., **Charest I.**, Latinus M., Bestelmeyer P., Belin P. (2009) Auditory Response of the Temporal Voice Areas Can Predict Memory for Voices. BACN Conference and Annual Meeting, London.

Charest, I., Pernet, C., Crabbe, F. & Belin, P. (2009) Investigating the representation of voice gender using a continuous carry-over fMRI design. Human Brain Mapping. San-Francisco, US.

Bestelmeyer, P.E.G., Latinus, M., Rouger, J., Bruckert, L., **Charest, I.**, Crabbe, F., & Belin, P. (2009) Cerebral correlates of vocal attractiveness perception. Human Brain Mapping, San-Francisco, US.

Quiñones I., Latinus M., **Charest, I.**, Crabbe F., Bobes A. M. & Belin P. (2009) Anatomical connectivity between face- and voice-selective cortex. Human Brain Mapping. San-Francisco, US.

Watson R., Quiñones I., Crabbe F., **Charest, I.**, Latinus M., Bestelmeyer P., & Belin P. (2009) Auditory response of the temporal Voice Areas (TVA) predicts memory performance for voices, but not bells. *Human Brain Mapping*. San-Francisco, US.

Charest, I., Pernet, C., Rousselet, G. A., Fillion-Bilodeau, S., & Belin P. (2008) The speed of voice recognition, *Human Brain Mapping*. Melbourne, Australia.

Belin, P., Pernet, C., **Charest, I.**, Bélizaire, G. & Zatorre, R. (2007) fMR-adaptation in auditory cortex. *Human Brain Mapping*. Chicago, US.

Pernet, C., **Charest, I.**, Bélizaire, G., Zatorre, R. J. & Belin, P. (2007) The Temporal Voice Areas: spatial characterization and variability. *Human Brain Mapping*. Chicago, US.

Charest, I., Rousselet, G. A. & Belin, P. (2007) Electrophysiological markers of voice gender. *Alpine Brain Imaging Meeting*. Champéry, Switzerland.

Belin, P., Fecteau, S., **Charest, I.**, Nicastro, N., Hauser, M. & Armony, J.L. (2006) Human perception of animal affective vocalizations, *Human Brain Mapping*. Florence, Italy.

Charest, I., Pelletier, I., Fillion-Bilodeau, S., Bélizaire, G., Chartrand, J.P., Pinard, C., Bertrand-Gauvin, C. & Belin, P. (2005) Neural correlates of voice gender perception: an event-related fMRI study. *Human Brain Mapping*. Toronto, Ontario, Canada.

Skills

Matlab, Pattern-information analyses, Statistical Parametric Mapping (SPM), freeSurfer, Psychtoolbox, Python, L^AT_EX, Linux