



Scott Love, PhD

May 1981, UK Citizen

Education

The University of Glasgow, UK

2007 – 2011 **Ph.D. Psychology.**

Title *An fMRI and psychophysical investigation of the temporal factor of audiovisual integration*

Supervisor Professor Frank Pollick

Description Functional Magnetic Resonance Imaging and behavioral experiments clearly showed that in humans audiovisual synchrony judgments and temporal order judgments index different perceptual processes supported by divergent neural mechanisms.

2006 – 2007 **M.Sc. Research Methods of Psychological Science.**

Awarded with Distinction

Title *How audio and visual cues interact to discriminate tempo of swing groove drumming*

Supervisor Professor Frank Pollick

2002 – 2006 **MA Social Sciences: Psychology & Philosophy.**

First Class Honours

Professional Experience

Research

Nov. 2017 – present **Chargé de Recherche**, *UMR Physiologie de la Reproduction et des Comportements, INRAE*, France.

Team Neuroethology and Development of Socio-emotional Behaviours

Nov. 2015 – Aug. 2017 **Research Engineer**, *Université François-Rabelais de Tours, Inserm, Imagerie et Cerveau UMR U930*, France.

Supervisor Professor Christophe Destrieux

Apr. 2015 – Oct. 2015 **Researcher**, *Laboratoire de Psychologie Cognitive UMR7290, Aix-Marseille Université / CNRS*, France.

Supervisor Adrien Meguerditchian, Comparative Cognition team

2013 – 2015 **Researcher**, *Institut de Neurosciences de la Timone UMR7289, Aix-Marseille Université / CNRS*, France.

Supervisor Professor Pascal Belin, Neural Basis of Communication Lab

2011 – 2013 **Post-doctoral Fellow**, *Indiana University, Bloomington, USA.*

Supervisor Professor Aina Puce, IU Social Neuroscience Lab

Teaching

- 2013 **P335 Cognitive Psychology**, *Indiana University*.
Lecturing to 200 students
- 2007 – 2010 **Level 1 Psychology tutoring**, *University of Glasgow*.
Groups of ~15 students each year

Honors & Awards

- 2011 Grindley Grant for Conference Attendance
- 2010 Guarantors of Brain Travel Award
- 2009 Attendance funding award, Socrates–Erasmus Intensive Program, “Formal Models and Quantitative Methods for Psychology”
- 2008 Attendance funding award, Socrates–Erasmus Intensive Program, “Mathematical and Computational Models in the Psychological Sciences”
- 2008 Attendance funding award, Workshop “Cue Combination - Unifying perceptual theory”

Skills

- f/MRI SPM, BrainVoyager QX, FSL, ANTs, ITK-SNAP, Brainvisa, Anatomist, Freesurfer
- EEG EEGLAB, LIMOEEG, Net Station
- Programming MATLAB, Psychtoolbox, Presentation, Bash, PYTHON, L^AT_EX
- Software SPSS, Excel, Word, PowerPoint, Canvas, Photoshop, Adobe Illustrator, Adobe Premier, Adobe Audition, Final Cut, FFmpeg

Languages

- English **Mothertongue**
- French **Elementary to Intermediate** CEFR scale

Publications

Peer-reviewed articles

- 13 Petrini, K., Denis, G., **Love, S. A.**, Nardini, M. In Press. Combining the senses: the role of experience- and task-dependent mechanisms in the development of audiovisual simultaneity perception. *Journal of Experimental Psychology: Human Perception and Performance*
- 12 Perez, E.C., Meurisse, M., Hervé, L., Georgelin, M., Constantin, P., Cornilleau, F., **Love, S. A.**, Lévy, F., Calandreau, L., Bertin, A. 2018. Object and food novelty induce distinct patterns of c-fos immunoreactivity in amygdala and striatum in domestic male chicks (*Gallus gallus domesticus*) *Behavioural Brain Research* 381
- 11 **Love, S. A.**, Petrini, K., Pernet, C., Latinus, M., Pollick, F.E. 2018. Overlapping but Divergent Neural Correlates Underpinning Audiovisual Synchrony and Temporal Order Judgments *Frontiers in Human Neuroscience* 12:274
- 10 Fontaine, M., **Love, S.A.**, Latinus, M. 2017. Familiarity and voice representation: from acoustic-based representation to voice averages. *Frontiers in Psychology*
- 9 Marie, D., Roth, M., Lacoste, R., Nazarian, B., Bertello, A., Anton, J.-L., Hopkins, W.D., Margiotoudi, K., **Love, S.A.**, Meguerditchian, A., 2017. Left brain asymmetry of the planum temporale in a nonhominid primate: redefining the origin of brain specialization for language. *Cerebral Cortex*

- 8 **Love, S.A.**, Marie, D., Roth, M., Lacoste, R., Nazarian, B., Bertello, A., Coulon, O., Anton, J.-L., Meguerditchian, A., 2016. The average baboon brain: MRI templates and tissue probability maps from 89 individuals. *Neuroimage* 132, 526–533
- 7 Destrieux, C., Terrier, L.M., Andersson, F., **Love, S.A.**, Cottier, J.P., Duvernoy, H., Velut, S., Janot, K., Zemmoura, I. 2016. A practical guide for the identification of major sulcogyral structures of the human cortex. *Brain Structure and Function*, 1–15
- 6 Latinus, M., **Love, S.A.**, Rossi, A., Parada, F.J., Huang, L., Conty, L., George, N., James, K., Puce, A., 2015. Social decisions affect neural activity to perceived dynamic gaze. *Social Cognitive and Affective Neuroscience* 10(11), 1557-1567
- 5 McAleer, P., Pollick, F.E., **Love, S.A.**, Crabbe, F., Zacks, J.M., 2013. The role of kinematics in cortical regions for continuous human motion perception. *Cognitive, affective & behavioral neuroscience* 14(1), 307-318
- 4 **Love, S.A.**, Petrini, K, Cheng, A, Pollick, F.E., 2013. A Psychophysical Investigation of Differences Between Synchrony and Temporal Order Judgments. *PLoS ONE* 8
- 3 Jola, C., McAleer, P., Grosbras, M.-H., **Love, S.A.**, Morison, G., Pollick, F.E., 2013. Uni- and multisensory brain areas are synchronised across spectators when watching unedited dance recordings. *i-Perception* 4, 265–284
- 2 **Love, S.A.**, Pollick, F.E., Latinus, M., 2011. Cerebral Correlates and Statistical Criteria of Cross-Modal Face and Voice Integration. *Seeing and Perceiving* 24, 351–367
- 1 Petrini, K., Pollick, F.E., Dahl, S., McAleer, P., McKay, L.S., McKay, L., Rocchesso, D., Waadeland, C.H., **Love, S.A.**, Avanzini, F., Puce, A., 2011. Action expertise reduces brain activity for audiovisual matching actions: an fMRI study with expert drummers. *Neuroimage* 56, 1480–1492

Book chapters

- 4 Puce, A., Latinus, M., Rossi, A., DaSilva, E., Parada, F., **Love, S.A.**, Ashourvan, A., Jayaramen, S., 2015. Neural Basis for Social Attention in Healthy Humans, in: Puce, A., Bertenthal, B.I. (Eds.), *The Many Faces of Social Attention: Behavioral and Neural Measures*. Springer New York, New York, NY
- 3 Maurage, P., **Love, S.A.**, D'Hondt, F., 2013. Crossmodal Integration of Emotional Stimuli in Alcohol Dependence, in: Belin, P., Campanella, S., Ethofer, T. (Eds.), *Integrating Face and Voice in Person Perception*. Springer New York, New York, NY
- 2 McAleer, P., **Love, S. A.** 2013. Perceiving intention in animacy displays created from human motion. In M. D. Rutherford, & V. A. Kuhlmeier (Eds.) *Social Perception: Detection and Interpretation of Animacy, Agency, and Intention*. MIT Press
- 1 **Love, S.A.**, Pollick, F.E., Petrini, K., 2012. Effects of Experience, Training and Expertise on Multisensory Perception: Investigating the Link between Brain and Behavior, in: Esposito, A., Esposito, A.M., Vinciarelli, A., Hoffmann, R., Müller, V. (Eds.), *Cognitive Behavioural Systems, Lecture Notes in Computer Science*. Springer Berlin Heidelberg

Conference Presentations

- 32 Vitiello, R. Meurisse, M., Lévy, F., Parias, C., **Love, S.A.**, Darnaudery, M., Dwyer, C., Chaillou, E., Nowak R. 2019. The prebiotic lactulose does not affect olfactory neurogenesis in a sheep model of early life stress. Poster at Federation of European Neurosciences Societies Regional Meeting, Belgrade, July 10-13
- 31 Yebga-Hot, R., Siwiaszczyk, M., Beaujoin, J., Barrière, D., Uszynski, I., **Love, S.A.**, Mulot, B., Calandrea, L., Chaillou, E., Poupon, C. 2019. A novel 11.7T ultra-high field dMRI connectivity atlas of the Japanese quail. Oral presentation at International Society for Magnetic Resonance in Medicine, Montréal, May 11-16

- 30 Yebga-Hot, R., Siwiaszczyk, M., Beaujoin, J., Barrière, D., Uszynski, I., **Love, S.A.**, Mulot, B., Calandreau, L., Chaillou, E., Poupon, C. 2019. A novel 11.7T ultra-high field dMRI connectivity atlas of the Japanese quail. Poster at Human Brain Mapping Conference, Rome, June 09-13
- 29 Barrière, D., Yebga-Hot, R., Siwiaszczyk, M., Beaujoin, J., Uszynski, I., **Love, S.A.**, Mulot, B., Calandreau, L., Chaillou, E., Poupon, C. 2019. A novel ex vivo MR Imaging template of the Japanese quail to study stress-selected lines. Poster at International Society for Magnetic Resonance in Medicine, Montréal, May 11-16
- 28 Siwiaszczyk, M., Yebga Hot, R., Poupon, C., Calandreau, L., Mulo, B., **Love, S.A.**, Chaillou, E. 2018. Impact de la sélection d'un comportement de peur sur l'anatomie de l'encéphale de caille. Utilisation de l'imagerie par résonance magnétique (IRM) ex vivo. Poster at Biotechnocentre, Seillac, October 11-12
- 27 Delaplace, R., Nowak, R., Lévy, F., **Love, S.A.**, Barantin, L., Chaillou, E. 2018. Impact de l'allaitement artificiel sur la maturation neuroendocrinienne évaluée par analyse de texture d'IRM. Oral Presentation at Journée Cascimodot, Tours, June 21
- 26 **Love, S.A.**, Siwiaszczyk, M., Auge, M., Destrieux, C., Andersson, F., Chaillou, E. 2018. Surface-based cortical parcellation and atlas creation of the sheep brain. Poster at Workshop on Animal Population Imaging, Paris, June 22
- 25 **Love, S.A.**, Siwiaszczyk, M., Auge, M., Maudhuizon, T., Destrieux, C., Andersson, F., Chaillou, E. 2017. Updated labelling and description of the gross anatomy of the sheep cortex derived from surface reconstruction of the brain. Oral presentation at New Animal Models to Understand the Brain, Nouzilly, May 15
- 24 Chaillou, E., Barantin, L., Andersson, F., Filipiak, I., Delaplace, R., **Love, S.A.**, Haslin, E., Morisse, M., Lévy, F., Nowak, R. (2017). Impact of early rearing experience on brain development in sheep infant. Oral presentation at New Animal Models to Understand the Brain, Nouzilly, May 15
- 23 Chaillou, E., Barantin, L., Andersson, F., Filipiak, I., Delaplace, R., Morisse, M., Sta, M., Haslin, E., **Love, S.A.**, Levy, F., Nowak, R. 2016. Impact of early rearing experience on brain development in sheep infant. Poster at Federation of European Neurosciences Societies, Copenhagen, July 02-06
- 22 **Love, S.A.**, Auge, M., Siwiaszczyk, M., Destrieux, C., Andersson, F., Chaillou, E., 2016. Surface-based cortical parcellation of the sheep brain. Poster at 2e Journée Thématique de Société des Neurosciences, Tour, May 24-25
- 21 **Love, S.A.**, Marie, D., Roth, M., Lacoste, R., Nazarian, B., Bertello, A., Coulon, O., Anton, J.-L., Meguerditchian, A., 2016. The average baboon brain: MRI templates and tissue probability maps from 89 individuals. Poster at Human Brain Mapping Conference, Geneva, June 26-30
- 20 Marie, D., Margiotoudi, K., Coulon, O., Roth, M., Lacoste, R., Nazarian, B., Bertello, A., Anton, J.L., Hopkins, W.D., **Love, S.A.**, Meguerditchian, A., 2016. Brain asymmetries of two language-related area homologs in baboon structural MRI. Poster at Human Brain Mapping Conference, Geneva, June 26-30
- 19 Marie, D., Margiotoudi, K., Coulon, O., Roth, M., Lacoste, R., Nazarian, B., Bertello, A., Anton, J.L., Hopkins, W.D., **Love, S.A.**, Meguerditchian, A., 2016. Brain asymmetries of two language-related area homologs in baboon structural MRI. Poster at Human Brain Mapping Conference, Geneva, June 26-30
- 18 Chaillou, E., Barantin, L., Andersson, F., Filipiak, I., Delaplace, R., Morisse, M., Sta, M., Haslin, E., **Love, S.A.**, Levy, F., Nowak, R., 2016. Impact of early rearing experience on brain development in sheep infant. Poster at Forum of Neuroscience, Copenhagen, July 2-6

- 17 Puce, A., Latinus, M., **Love, S.A.**, Rossi, A., Parada, F., Huang, L., Conty, L., James, K., George, N., 2014. Neural activity to viewed dynamic gaze is affected by social decision. *Front. Hum. Neurosci.* Conference Abstract. Oral presentation at XII International Conference on Cognitive Neuroscience (ICON-XII), Brisbane, Queensland, Australia, July 27 - 31
- 16 **Love, S.A.**, Fukushima, M., Doyle, R.C., Saunders, R.C., Fujii, N., Belin, P., Mishkin, M., Leopold, D.A., 2014. Norm-based neural coding of conspecific vocalizations in the macaque monkey. Poster at Society for Neuroscience, Washington DC, November 15 – 19
- 15 **Love, S.A.**, Latinus, M., Belin, P., 2014. Investigating categorization selectivity in the auditory cortex with high spatial resolution fMRI. Poster at International Conference on Auditory Cortex, Magdeburg September 13 – 17
- 14 Regener, P., **Love, S.A.**, Petrini, K., Pollick, F., 2014 Audiovisual processing differences in autism spectrum disorder revealed by a model-based analysis of simultaneity and temporal order judgments. Poster at Vision Sciences Society Conference, Florida, USA, May 16-21
- 13 Petrini, K., Denis, G., **Love, S.A.**, Nardini, M., 2013. The face and voice of multisensory integration: prior knowledge affects multisensory integration from early childhood. Oral presentation at Vision Sciences Society Conference, Florida, USA, May 10-15
- 12 Regener, P., **Love, S.A.**, Petrini, K., Simmons, D., Pollick, F., 2013. Audiovisual temporal integration in Autism Spectrum Disorder. Poster at Vision Sciences Society Conference, Florida, USA, May 10-15
- 11 Latinus, M., Joassin, F., Watson, R., Charest, I., **Love, S.A.**, McAleer, P., Belin, P., 2011. Conjoint and independent neural coding of bimodal face/voice identity investigated with fMRI. *Perception* 40 ECVF Abstract Supplement, pp. 23. Oral presentation at European Conference on Visual Perception, Toulouse, France, Aug 28 – Sept 1
- 10 McAleer, P., Becirspahic, M., Pollick, F. E., Paterson, H. M., Latinus, M., Belin, P., **Love, S.A.**, 2011. Giving life to circles and rectangles: Animacy, intention and fMRI. *Perception* 40 ECVF Abstract Supplement, pp. 16. Oral presentation at European Conference on Visual Perception, Toulouse, France, Aug 28 – Sept 1
- 9 Latinus, M., Joassin, F., Watson, R., Charest, I., **Love, S.A.**, Belin, P., 2011. Conjoint and independent neural coding of bimodal face/voice identity investigated with fMRI. Poster at Human Brain Mapping Conference, Quebec, Canada, June 26-30
- 8 **Love, S.**, Petrini, K., Cheng, A., Pollick, F.E., 2011. Differences between synchrony and temporal order judgments for simple and Complex Stimuli. *Journal of Vision* Vol. 11(11) pp. 798. Poster at Vision Sciences Society Conference, Florida, USA, May 6-11
- 7 McAleer, P., Becirspahic, M., **Love, S.A.**, 2011. How does your brain see “living” circles: A study of animacy and intention using fMRI. *i-Perception* 2(3) 200. Oral presentation at Scottish Vision Group Conference, Skye, Scotland, March 25-27
- 6 **Love, S.**, Latinus, M., McAleer, P., Pollick, F.E., 2010. Investigating synchrony perception of audiovisual speech with a continuous carry-over fMRI design. Poster at Human Brain Mapping Conference, Barcelona, Spain, June 6-10
- 5 McAleer, P., Pollick, F.E., Crabbe, F., **Love, S.**, Zacks, J.M., 2010. hMT+ and pSTS correlate with motion properties viewed in long video displays of human activities. Poster at Human Brain Mapping Conference, Barcelona, Spain, June 6-10
- 4 **Love, S.**, Latinus, M., McAleer, P., Pollick, F.E. (2010). Investigating synchrony perception of audiovisual speech with a continuous carry-over fMRI design. Poster at International Multisensory Research Forum Conference, Liverpool, UK, June 16-19
- 3 **Love, S.**, Hillis, J.M., Pollick, F.E., 2008. Does optimal integration of auditory and visual cues occur in a complex temporal task? Poster at International Multisensory Research Forum Conference, Hamburg, Germany, July 16-19

- 2 **Love, S.**, Hillis, J.M., Waadeland, C.H., Rocchesso, D., Avanzini, F., Dahl, S., Pollick, F.E. 2007. How audio and visual cues combine to discriminate the tempo of swing groove drumming. *Journal of Vision* Vol. 7(9) pp. 870a. Poster at Vision Sciences Society Conference, Florida, USA, May 11-16
- 1 Pollick, F.E., **Love, S.**, Hillis, J.M., Russell, M., Petrini, K., 2007. Is musical experience equal to the sum of sight and sound? An investigation of swing groove drumming. Oral presentation at Society for Music Perception and Cognition Conference, Montreal, Canada, July 30 - Aug 3