

## **TIMOTHY JOSEPH SENIOR, D.Phil. - CV**

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### **POSITIONS HELD**

**2013-** Honorary Fellowship with the School of Modern Languages, **University of Bristol**.

**2012-2013** External Lecturer with the School of Humanities and Social Sciences, **Jacobs University, Bremen**, Germany.

**2011-2012** Junior Fellow at the Institute for Advanced Study (**Hanse-Wissenschaftskolleg**) in Delmenhorst, Germany.

**2010-2011** External Lecturer with the School of Engineering Sciences, **Jacobs University**.

**2010-2013** Visiting Junior Fellow - Centre for Visual Communication and Expertise (VisComX), **Jacobs University**.

**2008-2010** Visiting Artist and Senior Research Scholar at ISIS (Information Studies and Information Science), **Duke University**, USA.

### **EDUCATION**

**2004-2008 D.Phil.** in Systems Neuroscience at the MRC Anatomical Neuropharmacology Unit, **Oxford University**. Alumnus of Worcester College. Title: An *in vivo* electrophysiological approach to the classification of interneurons in the behaving animal. Advisors: Dr Jozsef Csicsvari and Professor Peter Somogyi.

**2003-2004 M.Sc.** in Neuroscience at **Oxford University**. Alumnus of Worcester College.

**2000-2003 B.A.** in Biological Natural Sciences at **Cambridge University**. Alumnus of King's College.

### **FELLOWSHIPS + AWARDS**

**2013** Teacher of the Year - School of Humanities and Social Sciences, Jacobs University.

**2011** Teacher of the Year - School of Engineering and Sciences, Jacobs University.

**2011** Collaboration Development Grant from the Council for the Arts, Office of the Provost, Duke University.

**2011** 12-month Junior Fellowship at Hanse Wissenschaftskolleg, Delmenhorst, Germany.

**2003-2007** Wellcome Trust scholarship (for the four-year D.Phil. in neuroscience at Oxford University).

**2002** Wellcome Trust scholarship for an independent summer study project.

**2002** King's College Scholarship.

### **TEACHING**

**2013** Spring - Jacobs University: USC "Digital Cities"(020079; ISIS 380S; VMS 380S)

**2012** Fall - Jacobs University: USC "The Neuroscience of Arts and Politics" (020060)

**2011** Spring - Jacobs University: USC "The Neuroscience of Arts and Politics" (020060)

**2010** Fall - Jacobs University: "Behavioral Neurobiology" (50034)

**2010** Spring - Duke University: "The place of Memory" (ISIS 120.01; VISUALST 190.02; GERMAN 198.02)

**2009** Fall - Duke University: "The Exploration of the Biological Sciences through Art" (ISIS 120S.02; VISUALST 189.03)

### **PROFESSIONAL WORK**

**2014** Policy paper commission for the AHRC funded 'Knowledge Exchange Hubs for the Creative Economy' (REACT, Bristol)

**2013** SIGGRAPH - General Submissions, Art Gallery jury member.

**2012** SIGGRAPH - Reviewer, Art Papers.

**2009** SIGGRAPH - General Submissions, Information Aesthetics Gallery jury member.

### **ORGANISED SYMPOSIA and WORKSHOPS**

**2012** Workshop - "Performativity and Scientific Practice", Hanse-Wissenschaftskolleg (25-26.10.12) (<http://www.hwk-transition.com>)

**2010** Workshop - "The Art of Neuroscience", VisComX - Jacobs University (23-25.11.10 and 03.12.10)

**2009** Symposium - "The Place of Memory - Visualization of the Neurosciences Symposium" - John Hope Franklin Centre, Duke University (24.04.09)

## **PUBLICATION LIST (Arts, Humanities, Sciences)**

- 2014 Senior TJ.** Der Weg zum Memory Tower. In "ArteFakte. Wissen ist Kunst – Kunst ist Wissen". Berlin-Brandenburgische Akademie der Wissenschaften (accepted)
- 2014 Senior TJ.** The Dominican Friars in Bremen: Shaping a Cultural and Urban Landscape. Denkmalpflege in Bremen, 11. Temmen, Bremen (accepted)
- 2014 Turner R, Verweij M, Senior TJ, Domínguez JF.** The Human Brain and the Social Bond. *Frontiers in Human Neuroscience* (submitted)
- 2013 Senior TJ, Wiencek F, Szabo V.** Digital Cities: A Collaborative Engagement With Urban Heritage. *IEEE Xplore Digital Library* (in press)
- 2011 Senior TJ, Wiencek F.** Art < > Science: An Ontology. *Proceedings of the International Symposium on Electronic Art (ISEA)*, Istanbul, Turkey 2011.
- 2008 Huxter JR, Senior TJ, Allen K, Csicsvari J.** Theta phase-specific codes for two-dimensional position, trajectory and heading in the hippocampus. *Nat Neurosci*, 11(5):587-94
- 2008 Senior TJ, Huxter JR, Allen K, O'Neill J, Csicsvari J.** Gamma oscillatory firing reveals distinct populations of pyramidal cells in the CA1 region of the hippocampus. *J Neurosci*, 28(9):2274-86
- 2008 O'Neill J, Senior TJ, Allen K, Huxter JR, Csicsvari J.** Reactivation of experience-dependent cell assembly patterns in the hippocampus. *Nat Neurosci*, 11(2):209-15
- 2007 Csicsvari J, O'Neill J, Allen K, Senior TJ.** Place-Selective Firing Contributes to the Reverse Order Reactivation of CA1 Pyramidal Cells during Sharp Waves in Open Field Exploration. *Eur J Neurosci*, 26:704-16
- 2006 O'Neill J, Senior TJ & Csicsvari J.** Place-selective firing of CA1 pyramidal cells during sharp wave/ripple network patterns in exploratory behaviour. *Neuron*, 49:143-45

## **CONFERENCE PRESENTATIONS (Arts, Humanities, Sciences)**

- 2014** Performing Science: Dialogues Across Cultures - The Science and Performance Conference (upcoming) - The Lincoln School of Performing Arts (University of Lincoln). "Coping with Complexity: A Performative Framework" (Author: Senior TJ)
- 2013** Digital Heritage - International Congress (Marseille). "A Collaborative Engagement With Urban Heritage" (Authors: Senior TJ, Wiencek F, Szabo V).
- 2013** 4th annual Mary Douglas seminar - UCL department of Anthropology. "The Human Brain and the Social Bond" (Authors: Verweij M, Senior TJ).
- 2011** Rewire - 4th International Conference on the Histories of Media Art, Science and Technology (Liverpool). "Art < > Science: An Ontology" (Authors: Senior TJ, Wiencek F)
- 2011** ISEA - 17th International Symposium on Electronic Art (Istanbul). "Art < > Science: An Ontology" (Authors: Senior TJ, Wiencek F).
- 2011** Aboagora symposium - Rethinking enlightenment (Turku, Finland). "Memory Tower" paper presentation
- 2011** Subtle Technologies Festival (Toronto). "Memory Tower" paper presentation.
- 2007** Inhibition in the Central nervous system - Gordon Conference, Colby College Maine. Poster presentation. "An in vivo approach to the classification of interneurons in the hippocampus of the rat" (Authors: Senior TJ, Klausberger T, Csicsvari J).
- 2006** 5th Forum of European Neuroscience - Vienna. Poster presentation. "Hippocampal theta oscillations in the anaesthetised and drug-free rat" (Authors: Senior T, O'Neill J, Klausberger T. & Csicsvari J; Abstract vol. 3, A197.15).
- 2005** BNA National Meeting - Brighton. Poster presentation. "Theta oscillations under urethane + ketamine/xylazine anaesthesia" (Authors: Senior, T.J & Csicsvari, J; Abstract 37.03).

## **EXHIBITIONS**

- 2014** Solo exhibition: "Appartus of Sleep" - Upstairs Gallery (Carsten Meyer-Bohlen, Oldenburg). Date tbc
- 2012** Chief curator of the exhibition "TRANSITION: Knowledge Through Performance in Art and Science, Hanse-Wissenschaftskolleg (25.10.12-19.11.12)
- 2012** Group show: genericartensemble: deconstruct NYC - Bremen, City 46 (10.11.12)
- 2012** Group show: "Memory Tower" - CHAT Festival - Duke University (06.02.12-09.02.12).
- 2009** SIGGRAPH - 36th International Conference and Exhibition on Computer Graphics and Interactive Techniques - (New Orleans). "Exploring the Memory Tower" - animation.

## **INVITED LECTURES**

- 2013** "Medieval Monks and Digital Cities: The untold story of Jacobs University Bremen" - VisComX/SHSS Lecture series, Jacobs Uni. (16.05.13)
- 2013** "Performativity and Scientific Practice" - University of the Arts (Hochschule für Künste), Bremen (18.06.13)
- 2013** "The Art and Science of Memory" - The Center for Research and Interdisciplinarity(CRI), Paris (24.01.13)
- 2012** "Memory Tower" - Berlin-Brandenburgische Akademie der Wissenschaften: Salon Sophie Charlotte: Wissen ist Kunst - Kunst ist Wissen (22.01.12)
- 2012** "From Cajal to Performative Science: Finding a New Symbiosis Between Artistic and Scientific Practice" - VisComX/SHSS Lecture series, Jacobs Uni. (12.04.12)
- 2011** "The Neuroscience of Arts and Politics" - TEDx, Jacobs University (15.10.11)
- 2010** "Memory Tower": Lighthouse venue in Brighton, UK - <http://www.lighthouse.org.uk/> (30.11.10)
- 2010** "Memory Tower": New Media Institute in Frankfurt, Germany - <http://www.inm.de/> (09.11.10)
- 2009** "An Introduction to Bioart" : 'Innovating Forms Seminar' - John Hope Franklin Centre, Duke University (30.09.09)
- 2009** "Towards the Memory Tower" - John Hope Franklin Centre, Duke University (10.02.09)