



*"My goal in the field of neuroscience is to conduct rigorous research that is open to public engagement and that incorporates the highest standards in data sharing and collaboration"*

## Education and Professional Experience

<b>2/1/2013 – present</b>	<b>President and CEO</b> Institute for Brain and Society
<b>3/2005 – present</b>	<b>Director and Principal Investigator</b> The Brain Observatory San Diego, California
<b>1/7/2011 – 2/1/2015</b>	<b>Assistant Professor in Residence</b> Department of Radiology, University of California, San Diego La Jolla, California
<b>22/3/2005 – 30/6/2011</b>	<b>Assistant Adjunct Professor</b> Department of Radiology, University of California, San Diego La Jolla, California
<b>5/1/2000 – 21/3/2005</b>	<b>Staff Research Associate</b> University of California, Los Angeles Los Angeles, California
<b>1/2004</b>	<b>Ph.D. in Cognitive Science</b> Dartmouth College Hanover, New Hampshire
<b>10/1994</b>	<b>M.S. in Neurological Sciences</b> University College London London, United Kingdom
<b>6/1992</b>	<b>B.A. and M.S. in Biological Sciences</b> University of Rome 'La Sapienza' Florence, Italy

## Honors and Awards

---

2011	<b>Labby Multimedia Award. Judge's Choice for Best Website</b>
2010	<b>Esquire Magazine's Best &amp; Brightest Award</b>
2008	<b>National Center of Leadership in Academic Medicine</b>
2007	<b>Dana Foundation Brain &amp; Immuno Imaging Award</b>
2005	<b>UC San Diego Academic Senate Research Award</b>
2003	<b>UCLA School of Medicine, Staff Achievement Award</b>
1999	<b>Albert Cass Traveling Research Award (Rockefeller University)</b>
1998	<b>Hitchcock Foundation (Dartmouth-Hitchcock Medical Center) research fellowship</b>
1996	<b>British Council Fellowship</b>
1994	<b>University of Florence Research Training Abroad Fellowship</b>
1993	<b>University of Florence M.U.R.S.T. ERAMUS Travel Award</b>

## Selected Conference and Public Talks

---

09/08/2015	<b>"Multi-scale imaging of human brains: markers, shared architectures and variability"</b> Plenary 12th Meeting of the Polish Society for Neuroscience Gdansk, Poland
08/26/2014	<b>The Digital Renaissance of Human Neuroanatomy</b> INCF Neuroinformatics 2014 Leiden, The Netherlands
03/19/2014	<b>"New structural maps of the Brain"</b> Plenary 11th Annual Meeting of the Society for Brain Mapping and Therapeutics Sydney, Australia
02/22/2014	<b>"The Lesion method in Neuroscience"</b> FACES 2014 Encephalitis Conference. La Jolla, CA
11/22/2013	<b>"The Digital Brain Library - enabling correlations across neuroimaging and behavioral data in a mixed neurological patient population"</b> 3rd International Conference on Neurology & Epidemiology (ICNE) Abu Dhabi, UAE
11/14/2013	<b>"Building a Bigger Brain"</b> UC San Diego's Founder's Symposium San Diego, CA
10/18/2013	<b>"Brains in the 'Cloud': the amnesic patients H.M., E.P. and the Digital Brain Library"</b> 33rd Annual Meeting of the Society for Neuropsychology San Diego, CA

## Selected Conference and Public Talks (cont.)

---

- 10/30/2014**                    **Panel Interview with Dr. Allan Jones (Allen Institute for Brain Science)**  
Washington Ideas Forum (Aspen Institute with The Atlantic Magazine)  
Washington DC
- 10/04/2013**                    **“Humanizing the Brain”**  
The Atlantic Meets Pacific Conference (Organized by The Atlantic)  
La Jolla, CA
- 09/03/2013**                    **“Deconstructing Henry. The Brain of Patient HM, Revisited.”**  
Max Plank Institute Seminar Series, Leipzig, Germany.
- 05/21/2013**                    **“Patient H.M. and the Digital Brain Library”**  
American Society of Neuroradiology 51st Annual Meeting  
San Diego, CA
- 02/22/2013**                    **“What Comes To Mind: The Artistic Process and Neuroesthetics ”**  
Keynote NextMed/Medicine Meets Virtual Reality MMVR20 (with Joyce Cutler Shaw).  
San Diego, CA
- 29/01/2013**                    **“Beautiful Brains”**  
Audacious Speculations  
California Institute for Telecommunications and Informatics 2.  
San Diego, CA
- 29/03/2012**                    **TEDEX “The Art of Reinvention”**  
TedX Intuit.  
University of San Diego. San Diego, CA
- 07/03/2012**                    **“The Art and Science of Preserving Human Brains and Their Stories”**  
Distinguished Speaker Series. La Jolla Community Center. La Jolla, CA.
- 05/06/2012**                    **“The Brain Observatory.”**  
Wellcome Collection. Brains: The Mind as Matter exhibition.  
London, UK.
- 16/06/2011**                    **“Occupy Science: The Active Role of Tissue Donors in Brain Research”**  
“Symphony of Life: “Giving Life, Giving Thanks” Organ and Tissue Donors Conference  
San Diego, CA
- 10/07/2009**                    **“What Makes You, You!”**  
Seminar. Sanford/Burnham Medical Research Institute.  
San Diego, CA.

## Current Projects

---

### **The Human Brain Library Project**

Principal Investigator

A public archive of neuroimaging data representing functional and structural brain maps that are linked with detailed behavioral, genetic, and biographical information relative to represented individuals.

### **Project H.M.**

Principal Investigator

Leveraging on novel web technologies, social media, and 'mesh up' web applications, the project brings together scientists and the public into the exploration of the most famous case in neuropsychology.

## Selected Peer-Reviewed Publications

---

**Annese, J.**, Schenker-Ahmed, N.M., Bartsch, H., Maechler, P., Sheh, C., Thomas, N., Kayano, J., Ghatan, A., Bresler, N., Frosch, M.P., Klaming, R., Corkin, S. (2014) Postmortem examination of patient H.M.'s brain based on histological sectioning and digital 3D reconstruction. *Nature Communications*. 5:3122 doi:10.1038/ncomms4122.

Augustinack, J.C., Van der Kouwe, A.J.W., Salat, D.H., Benner, T., Stevens, A.A., **Annese, J.**, Fischl, B. Frosch, M.P., Corkin, S. (2014) HM's Contributions to Neuroscience: A Review and Autopsy Studies *Hippocampus* (11):1267-86. doi: 10.1002/hipo.22354.

**Annese, J.** (2013). From the Jar to the World Wide Web: Designing a Public Digital Brain Library for the Human Brain. *Interdisciplinary Science Review* 38(3):222-31.

Ronen, I., Budde, M., Ercan, E., **Annese, J.**, Techawiboonwong, A., Webb, A. (2013) Microstructural organization of axons in the human corpus callosum quantified by diffusion-weighted magnetic resonance spectroscopy of N-acetylaspartate and post-mortem histology. *Brain Structure and Function* doi: 10.1007/s00429-013-0600-0

Schenker-Ahmed, N.M., and **Annese, J.** (2013) Cortical Mapping by Magnetic Resonance Imaging (MRI) and Quantitative Cytological Analysis in the Human Brain: A Feasibility Study in the Fusiform Gyrus. *Journal of Neuroscience Methods*. 218(1): 9-16.

Hanson A., Grisham, W., Sheh, C., **Annese, J.**, Ridgway, S. (2013) Quantitative examination of the Bottlenose Dolphin cerebellum. *The Anatomical Record*, 296(8): 1215-1228.

Klaming, R. and **Annese, J.** (2013) Functional Anatomy of Essential Tremor: Lessons from Neuroimaging. *American Journal of Neuroradiology*. doi: 10.3174/ajnr.A3586.

Insausti, R., **Annese, J.**, Amaral, D.G., Squire L.R. (2013) Human amnesia and the medial temporal lobe illuminated by neuropsychological and neurohistological findings for patient E.P. *Proceedings from the National Academy of Science* 110(21): E1953 - 1962.

## Selected Peer-Reviewed Publications (cont.)

---

Budde, MD and **Annese, J.** (2013) Quantification of anisotropy and fiber orientation in human brain histological sections. *Frontiers in Integrative Medicine*. 7(3): 1-8.

Bartsch, H., Maechler, P, **Annese, J.** (2012) Automated Determination of Axonal Orientation in the Deep White Matter of the Human Brain. *Brain Connectivity*, 2(5): 284-290.

Barger, N., Stefanacci, L., Schumann, C.M., Sherwood, C.C., **Annese, J.**, Allman, J.M., Buckwalter, J.A., Hof, P.R., Semendeferi, K. Neuronal. (2012) Populations in the Basolateral Nuclei of the Amygdala are Differentially Increased in Humans Compared to Apes: A Stereological Study. *Journal of Comparative Neurology*. 520(13): 3035-3054.

**Annese, J.** (2012) The Importance of Combining MRI and Large-Scale Digital Histology in Neuroimaging Studies of Brain Connectivity and Disease. *Frontiers in Neuroinformatics* 6(13):1-6.

**Annese, J.** (2011) Neuropsychology of Memory Revisited. In: McGraw-Hill Yearbook of Science & Technology, McGraw-Hill Companies, USA. pp. 225-228.

Worth, R. and **Annese, J.** (2012) Brain Observatory and the Continuing Study of H.M.: Interview with Jacopo Annese. *Europe's Journal of Psychology*. 8(2): 222-230.

**Annese, J.**, and Weber, P. (2009) A Scalable Visualization Environment for the Correlation of Radiological & Histopathological Data at Multiple Levels of Resolution. *Student Health Technology Informatics*.142: 19-24

**Annese, J.**, Sforza, D.M., Dubach, M., Bowden, D. and Toga, A. W. (2006) Postmortem High Resolution 3-dimensional Imaging of the Primate Brain. *Blockface Imaging of Perfusion Stained Tissue*. *Neuroimage*. 30: 61-69.

**Annese, J.**, Gazzaniga, M.S., and Toga, A.W. (2005) Localization of the Human Cortical Visual Area MT Based on Computer Aided Histological Analysis. *Cerebral Cortex*. 15(7): 1044-1053.

**Annese J.**, Pitiot A., Dinov, I. D., and Toga, A. W. (2004) A myeloarchiteconic method for the structural classification of cortical areas. *Neuroimage*. 21: 15-26, 2004.

Sforza, D.M., **Annese, J.**, Liu D., Levy, S., Toga, A. W. and Smith, D. J. (2004) Anatomical methods for voxelation of the mammalian brain. *Neurochemical Research*. 29(6), 1299 – 1306.

## Book Chapters and Reviews

---

**Annese, J.** "*In Retrospect: Brodmann's brain map.*" Review of Korbinian Brodmann's "*Localization in the Cerebral Cortex.*" Leipzig-Verlag, 1909. [in] *Nature*, Vol. 461, October 2009.

**Annese, J.** "*Neuropsychology of Memory Revisited.*" In: McGraw-Hill Yearbook of Science & Technology, McGraw-Hill Companies, USA, 2011, pp. 225-228.

**Annese, J.** and Toga, A. W. (2002). Postmortem Anatomy. In: "*Brain Mapping: the Methods.*" Second Edition (A. W. Toga and J. C. Mazziotta Eds.). New York, Academic Press: 537-571.

## Conference Proceedings

---

Zhuang, H., **Annese, J.**, Valentino, D.J., and Toga, A.W. (2003). Displaying brain atlases using a portable java application: The Anatomist. Proc. SPIE Vol. 5029, p. 790-796, Medical Imaging 2003: Visualization, Image-Guided Procedures, and Display; Robert L. Galloway, Jr.; Eds.

Bowden, D.M., Dubach, M., de Crespigny, A., Chalyan, V.G., Kuperman, J., and **Annese, J.** (2007) "Three-dimensional multimodal atlas of the rhesus macaque brain" in Proceedings of Medical Primatology, sponsored by Research Institute of Medical Primatology of the Russian Academy of Medical Science, Adler, Russia and Pitsunda, Abkhazia.

## Selected Media Interviews

---

03/02/2014	<b>The Washington Post</b>	"A brain surgery decades ago is getting a new look and raising questions about memory"
28/01/2014	<b>National Geographic</b>	"After Death, H.M.'s brain uploaded to the Cloud"
05/05/2012	<b>British Broadcasting Corporation (BBC)</b>	"All in the Mind"
25/11/2011	<b>The Financial Times</b>	"Grey Matters"
17/11/2011	<b>UC San Diego Television</b>	"Health Matters: Your Own Personal Brain Map."
08/08/2011	<b>National Science Foundation</b>	"Mind Mappers."
09/05/2011	<b>San Diego Union Tribune</b>	"UCSD to Digitally Image 1,000 Donated Brains."
26/04/2011	<b>American Broadcasting Company (ABC)</b>	"Seeking 1,000 Brains from the Healthy, the Diseased, the Extraordinary."
30/08/2010	<b>British Broadcasting Corporation (BBC)</b>	"Health Check."
03/05/2010	<b>Discover Magazine</b>	"The Art & Science of Slicing up a Human Brain."
01/01/2010	<b>Science</b>	"Cerebral Cut-Up an Internet Hit"
21/12/2009	<b>The New York Times</b>	"Building a Search Engine of the Brain, Slice by Slice"
03/12/2009	<b>The Wall Street Journal</b>	"Watch Scientists Slice The Brain of a Man Who Had No Memory"
03/12/2009	<b>CBS Evening News</b>	"Uncovering Secrets of Human Memory"
25/11/2009	<b>Nature</b>	"Famous Brain Set to go Under the Knife"
25/08/2009	<b>NOVA Science Now</b>	"How Memory Works"

## Skills

---

Excellent oral and written communication skills  
Able to adapt to interlocutor's personality, attitude, and disposition towards productive discussions and professional interactions.

## Computer

---

Windows, MACOS, Linux  
Basic and complex word editors and typesetting programs such as Word, Latex  
Good to excellent knowledge of Adobe design applications (Photoshop, Illustrator, InDesign)  
Basic to intermediate knowledge of audio and video (Protools and Final Cut)

## Languages

---

Written and verbal fluency in Italian, English, and French

## Hobbies

---

Photography (portfolio available)  
Cuisine: Professional private and professional services  
Music: Guitar and Piano