

BRADLEY VOYTEK, Ph.D.

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
MISSION BAY – SANDLER NEUROSCIENCES CENTER
675 NELSON RISING LANE ROOM 505 (BOX 0444)
SAN FRANCISCO, CALIFORNIA 94158

EMAIL: BRADLEY.VOYTEK GMAIL COM
<http://darb.ketyov.com>

EDUCATION

- 2010 May *Philosophia Doctor: Neuroscience*
Frontal and Basal Ganglia Contributions to Working Memory and Attention
University of California, Berkeley • Berkeley, CA, USA
Advisor: Robert T. Knight
Committee: Richard B. Ivry, Michael Silver, Stephen Hinshaw
- 2002 May *Bachelor of Arts: Psychology*
University of Southern California • Los Angeles, CA, USA

ACADEMIC EMPLOYMENT

- 2011 – present Adam Gazzaley, *University of California, San Francisco*
Post-doctoral Fellow (NIH/NIGMS fellowship)
- 2010 – 2011 Mark D'Esposito, *University of California, Berkeley*
Post-doctoral Researcher
- 2009 Anne-Kristin Solbakk, *Rikshospitalet University Hospital, Oslo, Norway*
Electrophysiology Consultant
- 2008 – 2010 Nathan E. Crone, *Johns Hopkins University School of Medicine*
Trainee: Department of Neurology
- 2007 *University of California, Berkeley Graduate Assembly Executive Board*
Technology Chair
- 2005 – 2007 *Science for Everyone Everywhere* (education outreach organization)
President & Co-founder: 501(c)(3) non-profit organization (dissolved)
- 2002 – 2004 Edythe D. London, *University of California, Los Angeles*
Staff Research Associate II; Consultant: 2005 Apr
- 2000 – 2002 Adrian Raine, *University of Southern California*
Undergraduate Research Assistant; Consultant: 2004 Jul – Aug

NON-ACADEMIC EMPLOYMENT & CONSULTING

- 2011– present *The National Academy of Sciences - Science & Entertainment Exchange*, Consultant

2012–present Uber, Inc., Data Evangelist

HONORS, AWARDS, & SPECIAL EVENTS

- 2013 Mar *University of California*: President's Postdoctoral Fellowship Program
- 2012 Jun *Foo Camp attendee*: Invitation-only conference by *O'Reilly Media*
- 2012 Mar *AAAS*: Finalist - Early Career Award for Public Engagement with Science
- 2011 Oct *Forbes* “Edge Thinker” ([link](#))
- 2011 Aug *SciFoo attendee*: Invitation-only conference by *Nature Publishing Group*, *Google, Inc.*, and *O'Reilly Media*
- 2011 *Time Magazine*: Person of the Year ([link](#))
Split prize
- 2009 – 2012 *Society for Neuroscience*: Neuroscience Scholars Program
Three-year professional development fellowship
- 2009 *AAAS/Science*: Program for Excellence in Science
Honorary student membership to the American Association for the Advancement of Science
- 2007 Spring *University of California, Berkeley*: Course Improvement Grant
Awarded funding to enhance learning • Integrative Biology 245L: Functional Neuroanatomy
- 2006 *Time Magazine*: Person of the Year ([link](#))
Split prize
- 2005 Fall *University of California, Berkeley*: Outstanding Graduate Student Instructor
University teaching award • Molecular & Cell Biology 163: Mammalian Neuroanatomy
- 2004 – 2007 *American Psychological Association*: Diversity Program in Neuroscience
3-year graduate research fellowship
- 1998 – 2000 *University of Southern California*: Presidential Scholarship
- 1998 – 2002 *University of Southern California*: Thematic Option Program (alumnus)
Honors general education program
- 1998 *University of Southern California*: Resident Honors Program
Early college admittance program
- 1998 – 1999 *University of Southern California Undergraduate*: Physics scholarship
- 1998 *Hewlett Packard Outstanding Scholarship*

GRANTS & FUNDING

- 2012 The Feldman Family Foundation, \$15,000
- 2012 University of California, San Francisco. Information Technology Innovation Contest: Disseminating UCSF Research & Connecting with Disease Communities via Social Media Automation, \$10,000.
- 2011 – 2015 National Institute of General Medical Sciences, NIH. Institutional Research and Career Development Award (IRACDA) Scholars in Science (ISIS), ~ \$300,000 (four years salary and benefits, plus research and travel costs). PI: Bradley Voytek, Ph.D. Mentor: Adam Gazzaley, M.D./Ph.D.
- 2008 – 2010 National Institute of Neurological Disorders and Stroke, NIH. Diversity Supplement to NS021135: Attention, Orientation and Human Prefrontal Cortex, \$122,988. PI: Robert T. Knight. M.D.

PROFESSIONAL ACTIVITIES

Scientific Tools

brainSCANr ([link](#))

- The Brain Systems, Connections, Associations, and Network Relationship engine. Search tool to visually examine the relationships between brain regions, functions, and diseases.

Editorial Service

Reviewer: *Annals of Neurology; Brain Research; Cerebral Cortex; Frontiers in Human Neuroscience; Journal of Cognitive Neuroscience; Journal of Neuroscience; Journal of Neuroscience Methods; Nature; Nature Neuroscience; Neural Computation; NeuroImage; Neuron; Neurology; Neuroscience Letters; The Proceedings of the National Academy of Sciences USA*

Advisory: *Itineration: Cross-Disciplinary Studies in Rhetoric, Media, and Culture.*

Membership

- American Association for the Advancement of Science (AAAS), 2009 – current
- Society for Neuroscience (SfN), 2004 – current
- Association for Psychological Science (APS), 2013 – current
- Cognitive Neuroscience Society (CNS), 2012 – current

Scientific Advisory Boards

- Lifeboat Foundation – Neuroscience Board

Service

- University of California, Berkeley Committee on Educational Policy Representative Graduate Assembly, 2006
- University of California, Berkeley Graduate Assembly Delegate: Helen Wills Neuroscience Institute, 2006 – 2007
- San Francisco Bay Area Society for Neuroscience Chapter Organizer: Brain Awareness Week, 2006

BOOKS AND BOOK CHAPTERS

1. **Voytek B** & Knight RT (2010). Dynamic communication and connectivity in frontal networks. In *Mind and the Frontal Lobes: Cognition, Behavior, and Brain Imaging* (editors, Levine B & Craik FIM) New York (USA): Oxford University Press.
2. Cohen MX & Voytek B (2012). Linking nonlinear neural dynamics to single-trial human behavior. In *Multiscale Analysis and Nonlinear Dynamics: from Molecules to the Brain* (editors, Schuster HG & Pesenson M) New York (USA): Wiley. (forthcoming)

PEER-REVIEWED PUBLICATIONS

Published

1. Bauer M, London ED, Rasgon N, Berman SM, Frye MA, Altshuler LL, Mandelkern MA, Bramen J, **Voytek B**, Woods R, Mazziotta JC, Whybrow PC (2005). Supraphysiological doses of levothyroxine alter regional cerebral metabolism and improve mood in bipolar depression. *Mol Psychiatry* 10(5), 456-469.
2. **Voytek B**, Berman SM, Hassid BD, Simon SL, Mandelkern MA, Brody AL, Ling W, London ED (2005). Differences in regional brain metabolism associated with marijuana abuse in methamphetamine abusers. *Synapse* 57(2), 113-115.
3. London ED, Berman SM, **Voytek B**, Simon SL, Mandelkern MA, Monterosso J, Thompson PM, Brody AL, Geaga JA, Hong MS, Hayashi KM, Rawson RA, Ling W (2005). Cerebral metabolic dysfunction and impaired vigilance in recently abstinent methamphetamine abusers. *Biol Psychiatry* 58(10), 770-778.
4. **Voytek B** (2006). Emergent basal ganglia pathology within computational models. *J Neurosci* 26(28), 7317-7318.
5. Berman SM, **Voytek B**, Mandelkern MA, Hassid BD, Isaacson A, Monterosso JR, Miotto K, Ling W, London ED (2008). Changes in cerebral glucose metabolism during early abstinence from chronic methamphetamine abuse. *Mol Psychiatry* 13(9), 897-908.
6. Bauer M, Berman SM, Schlagenhaut F, **Voytek B**, Rasgon N, Mandelkern MA, Whybrow PC, London ED (2009). Regional cerebral glucose metabolism and anxiety symptoms in bipolar depression: Effects of levothyroxine. *Psychiatry Res* 181(1), 71-76.
7. **Voytek B**, Secundo L, Bidet-Caulet A, Scabini D, Stiver S, Gean AD, Manley G, Knight RT (2010). Hemicraniectomy: A new model for human electrophysiology with high spatio-temporal resolution. *J Cogn Neurosci* 22(11), 2491-2502.
 - **Media:** *Wired* ([link](#)); *MindHacks* ([link](#))

8. **Voytek B** & Knight RT (2010). Prefrontal cortex and basal ganglia contributions to visual working memory. *Proc Natl Acad Sci USA* 107(42), 18167-18172.
 - **Media:** UC Berkeley press release ([link](#))
9. **Voytek B**, Canolty RT, Shestyuk A, Crone NE, Parvizi J, Knight RT (2010). Shifts in gamma phase-amplitude coupling frequency from theta to alpha over posterior cortex during visual tasks. *Front Hum Neurosci* 4(191), 1-9.
 - Promoted to 2nd tier to *Frontiers in Neuroscience* due to high impact.
10. **Voytek B**, Davis M, Yago E, Barceló F, Vogel EK, Knight RT (2010). Dynamic neuroplasticity after human prefrontal cortex damage. *Neuron* 68(3), 401-408.
 - **Media:** Faculty of 1000 ([link](#)); CBS News ([link](#)); The Washington Post ([link](#)); UC Berkeley press release ([link](#))
11. Jacobs J, Miller K, Edwards E, **Voytek B** (2011). Spurious report of high-frequency electrocorticographic oscillations. *J Neurosci* (letter to the editor).
12. Løvstad M, Funderud I, Lindgren M, Endestad T, Due-Tønnessen P, Meling T, **Voytek B**, Knight RT, Solbakk AK (2012). Contribution of subregions of human frontal cortex to novelty processing. *J Cogn Neurosci* 24(2), 378-395.
13. **Voytek B***, Soltani M*, Pickard N, Kishiyama MM, Knight RT (2012). Prefrontal Cortex Lesions Impair Object-Spatial Integration. *PLoS ONE* 7(4), e34937.
 - * these authors contributed equally
14. Voytek JB, **Voytek B** (2012). Automated Cognome Construction and Semi-automated Hypothesis Generation. *J Neurosci Methods* 208(1), 92-100.
 - **Media:** *Forbes* ([link](#)); *Wired* ([link](#)); *Scientific American* ([link](#)); *MindHacks* ([link](#))
15. Løvstad M., Funderud I, Meling T, Krämer UM, **Voytek B**, Due-Tønnessen P, Endestad T, Lindgren M, Knight RT, Solbakk AK (2012). Anterior cingulate cortex and cognitive control: Neuropsychological and electrophysiological findings in two patients with lesions to dorsomedial prefrontal cortex. *Brain Cognit* 80(2), 237-249.
16. Funderud I, Lindgren M, Løvstad M, Endestad T, **Voytek B**, Knight RT, Solbakk AK (in press). Differential Go/NoGo activity in both contingent negative variation and spectral power. *PLoS ONE* 7(10), e48504.
17. Ritaccio A, Beauchamp M, Bosman C, Brunner P, Chang E, Crone N, Gunduz A, Gupta D, Knight R, Leuthardt E, Litt B, Moran D, Ojemann J, Parvizi J, Ramsey N, Rieger J, Viventi J, **Voytek B**, Williams J, Schalk G (2012). Proceedings of the Third International Workshop on Advances in Electrocorticography. *Epilepsy Behav* 25(4), 605-613.
18. **Voytek B**, Gazzaley A (2013). Stimulating the Aging Brain. *Ann Neurol* 73(1), 1-3 (editorial).
19. **Voytek B**, D'Esposito M, Crone NE, Knight RT (2013). A Method for Event-related Phase/Amplitude Coupling. *NeuroImage* 64, 416-424.

INVITED SCIENTIFIC LECTURES

Public

1. *Girl Scouts of Northern California Girls Go Tech*, San Francisco, CA, USA. 2006 Feb.
2. Brain Awareness Week organizer, *San Francisco Bay Area chapter of the Society for Neuroscience*, Berkeley, CA, USA. 2006 Mar.
3. *Girl Scouts of Northern California Girls Go Tech*, San Francisco, CA, USA. 2007 Feb.
4. *Anthony W. Ochoa Intermediate School Youth Enrichment Program*, Hayward, CA, USA. 2007 Jun.
5. *The Tech Museum of Innovation Body Worlds 2*, San Jose, CA, USA. 2007 Oct.
6. *Girl Scouts of Northern California Girls Go Tech*, San Francisco, CA, USA. 2008 Feb.
7. *Girl Scouts of Northern California Girls Go Tech*, San Francisco, CA, USA. 2009 Feb.
8. *Allendale Elementary School Mind & Brain Night*, Oakland, CA, USA. 2009 Feb.
9. Social Media for Science Outreach, *ScienceOnline Bay Area, swissnex*, San Francisco, CA, USA. 2012 May.
10. UCSF Center for Educational Partnerships, *National Youth Leadership Forum*, San Francisco, CA, USA. 2012 Jul.
11. Social Media for Science Outreach, *NASA Ames Research Center*, Mountain View, CA, USA. 2012 Jul.
12. *Big Picture Science, Bay Area Science Festival*, Computer History Museum, Mountain View, CA, USA. 2012 Oct.

Academic

1. *University of California, Berkeley Cognitive Science Student Association*, Berkeley, CA, USA. 2005 May.
2. *University of California, Berkeley Cognitive Science Student Association*, Berkeley, CA, USA. 2006 Apr.
3. *University of California, Berkeley Cognitive Science Student Association*, Berkeley, CA, USA. 2006 Nov.
4. *University of California, Berkeley Cognitive Science Student Association*, Berkeley, CA, USA. 2007 Apr.
5. *Neural Information Processing Systems: Large Scale Brain Dynamics Workshop*, Vancouver, BC, Canada. 2007 Dec.
6. *University of California, Berkeley Cognitive Science Student Association*, Berkeley, CA, USA. 2008 Apr.
7. *IEEE/University of California, Berkeley Cognitive Science Student Association*, Berkeley, CA, USA. 2009 Mar.
8. *California Cognitive Science Conference*, Berkeley, CA, USA. 2009 Apr.
9. *Rikshospitalet University Hospital*, Oslo, Norway. 2009 May.
10. *Max-Planck-Institut für Kognitions- und Neurowissenschaften*, Leipzig, Germany. 2009 Aug.
11. *University of Oregon, Department of Psychology*, Eugene, OR, USA. 2009 Nov.
12. *IEEE/University of California, Berkeley CS/EE Demo Day*, Berkeley, CA, USA. 2010 Apr.
13. *Bay Area Memory Meeting*, Stanford, CA, USA. 2010 Aug.
14. *University of California, Davis, Center for Mind and Brain: Time-Frequency Bootcamp, "Advanced Time-Frequency Analysis Methods"*, Davis, CA, USA. 2010 Aug.
15. *University of California, Berkeley, Cognition, Brain, and Behavior*, Berkeley, CA, USA. 2010 Oct.

16. *International Congress for Clinical Neurophysiology: Neuronal Oscillations in Multi-scale Brain Networks Workshop*, Kobe, Japan. 2010 Oct.
17. *University of Washington, College of Computer Science & Engineering*, Seattle, WA, USA. 2010 Nov.
18. *Computational and Systems Neuroscience: Developing Simplified Algebras to Describe Large-Scale Brain Dynamics Workshop*, Salt Lake City, UT, USA. 2011 Feb.
19. DARPA “Narrative Networks (N2): The Neurobiology of Narratives Workshop”, San Francisco, California, USA. 2011 Apr.
20. *California Cognitive Science Conference*, Berkeley, CA, USA. 2011 Apr.
21. Speaker, *Stanford University, Dept. of Neurology and Neurological Sciences*, Stanford, CA, USA. 2011 May.
22. Symposium Chair, *XI International Conference on Cognitive Neuroscience*, “The Cognitive Role of Cross-frequency Coupling”, Palma, Mallorca, Spain. 2011 Sep.
23. *3rd International Workshop on Advances in Electroencephalography*, Washington, DC, USA. 2011 Nov.
24. *University of California, Berkeley Brain Imaging Center Research Day*, Berkeley, CA, USA. 2011 Dec.
25. Keynote Speaker, *Annual Meeting of the San Francisco Neurological Society*, Sonoma, CA, USA. 2012 May.
26. *Neuroscience Information Framework*, 2012 May.
27. *swissnex*, San Francisco, CA, USA. 2012 May.
28. *International Neuropsychological Society*, Oslo, Norway. 2012 Jun.
29. *Bay Area Memory Meeting*, Davis, CA, USA. 2012 Aug.
30. *Allen Brain Institute*, Seattle, WA, USA. 2012 Aug.
31. *University of California, Berkeley*, California, USA. 2012 Sep.
32. *Stanford University, Dept. of Neurology and Neurological Sciences*, Stanford, CA, USA. 2012 Sep.
33. *University of Chicago*, IL, USA. 2012 Oct.
34. Grand Rounds, *University of California, San Francisco*, CA, USA. 2013 Jan.
35. Professional Development Program, *Stanford University, Neuroscience PhD Program*, Stanford, CA, USA. 2013 Jan.
36. *University of California, San Francisco, Recruitment Fair*, CA, USA. 2013 Jan.

ACADEMIC LECTURES & PUBLICATIONS – OTHER

1. *AtGoogleTalks Tech Talk*, Mountain View, CA, USA. 2011 Jan. ([video link](#))
2. *TEDxBerkeley*, Berkeley, CA, USA. 2011 Apr. ([video link](#))
3. *International Conference on the Fantastic in the Arts*, Orlando, FL, USA. 2011 Mar.
Reviewed abstract: “Breach in the mind: The hypothetical neuroanatomy subserving the process of ‘unseeing’ in China Miéville’s *The City & The City*”
4. *SciFoo* lecture, Mountain View, CA, USA. 2011 Aug.
5. *Ignite* talk at *AndroidOpen*, San Francisco, CA, USA. 2011 Oct. ([video link](#))
6. *International Conference on the Fantastic in the Arts*, Orlando, FL, USA. 2012 Mar.
Reviewed abstract: “Medusa to Slake-moth: The Neurobiological Basis of Hypnagogia, Paralysis, Hallucinations, and Other Magical Abilities of Literary Monsters”
7. In-Q-Tel CEO Summit, CA, USA. 2012 Feb.
8. Orange Institute, Palo Alto, CA, USA. 2012 Feb.

9. Splunk, San Francisco, California, USA. 2012 Mar.
10. *Where Conference (O'Reilly Media) workshop*, San Francisco, CA, USA. 2012 Apr.
11. *Where Conference (O'Reilly Media) speaker*, San Francisco, CA, USA. 2012 Apr.
12. *Lookout*, San Francisco, CA, USA. 2012 May.
13. *Hult International Business School*, San Francisco, CA, USA. 2013 Jan.
14. *The Hive*, Palo Alto, CA, USA. 2013 Feb.
15. *Strata*, Santa Clara, CA, USA. 2013 Feb.
16. *Kaggle*, San Francisco, CA, USA. 2013 Mar.

ACADEMIC SCIENCE FICTION

Awards

2010 *Zombie Research Society*: Georgie Award in Science

Scientific Advisory Boards

- Advisor: *Zombie Research Society*

Media

1. *National Geographic* TV, "The Truth Behind Zombies", aired 2010 Oct.
2. *Wired*, "How to Survive the Zombie Apocalypse Using Science" ([link](#))
3. *Mind Hacks*, "The neurology of the undead" ([link](#))
4. *El Mundo*, "Neurociencia contra los zombies" ([link](#))
5. *American Academy of Neurology*, interviewed in *Neurology Now*, "Two Self-Proclaimed Neuroscience 'Geeks' Decipher the Zombie Brain", 11(15), 32-34. ([link](#))
6. *Wired*, "Zombie Brains: Fake Ghoul Science From a Real Scientist" ([link](#))
7. *Forbes*, "Explaining the Neuroscience of the Zombie Epidemic" ([link](#))
8. *Slate*, "Zombies Attack Science" ([link](#))
9. NPR, "Bay Area Science Festival Kicks Off with a Few Important Tips On Zombies" ([link](#))
10. NPR, "Bay Area Science Festival", aired Halloween, 2011
11. *New York Magazine*, "How to Survive a Zombie Attack" ([link](#))
12. *New Hampshire Public Radio*, "Of Zombie and Ants" ([link](#))
13. *The Washington Monthly*, "Zombie Brains" ([link](#))
14. *TED Ed*, "Diagnosing a zombie" Part 1 ([link](#)); Part 2 ([link](#)) (>200,000 views)
15. *The Columbus Dispatch*, "The science (fiction) of zombies" ([link](#))
16. *Wired*, "Zombie Neuroscientist Explains the Ant-Like Behavior of World War Z's Running Dead" ([link](#))
17. *Wired*, "A Pseudo-Scientific Analysis of *Warm Bodies* and the Zombie Tropes It Defies", ([link](#))

Invited Lectures

1. 1st annual *zomBcon*, Seattle, WA, USA. 2010 Oct.
 - Panelist: *Plague Science*
 - Speaker: *Scanning the Zombie Brain*
 - Panelist: *Zombie Anatomy*
2. *Comic-Con International*, San Diego, CA, USA. 2011 Jul.
 - Panelist: *History of the Modern Zombie*
 - Panelist: *Science of Zombies: Is a real-life zombie "virus" possible?*

3. 2nd annual *zomBcon*, Seattle, WA, USA. 2011 Oct.
4. *NightLife*, California Academy of Sciences/Bay Area Science Festival, San Francisco, CA, USA. 2011 Oct.
5. *Brentwood Public Library*, Brentwood, CA, USA. 2012 May.
6. *Comic-Con International*, San Diego, CA, USA. 2012 Jul.
7. *Antioch Library*, Antioch, CA, USA. 2012 Aug.
8. *NightLife*, California Academy of Sciences/Bay Area Science Festival, San Francisco, CA, USA. 2012 Oct.
9. *University of Wisconsin*, 2012 Dec.
10. *McDaniel College*, 2013 Apr.

MEDIA

1. *The New York Times*, **In Pursuit of a Mind Map, Slice by Slice**, 2010 Dec 27. ([link](#))
2. *The Washington Post*, **Brain Trauma and Rehabilitation**, 2011 Jan 21. ([link](#))
3. *Forbes*, **Neuroscientist Bradley Voytek is Bringing the Silicon Valley Ethos into Academia**, 2011 Oct 17. ([link](#))
4. *Forbes*, **Why Uber's Data Fascinates a Neuroscientist**, 2012 Mar 06. ([link](#))
5. *Forbes*, **The Story Of A Neuroscientist, A Car Service And Location Data**, 2012 Mar 14. ([link](#))
6. *Big Picture Science*, **Wired for Thought**, 2012 Jan 16. ([link](#))
7. *Forbes*, **Do Liars Really Have Different Brains?**, 2012 Jun 11. ([link](#))
8. *The Huffington Post*, **Neuroscience on Twitter: 30 High-Profile Scientists who Tweet**, 2012 Jun 11. ([link](#))
9. *The Chronicle of Higher Education*, **Zombies on the Brain: Young Neuroscientists' Popular Zombie Study Frightens Their Advisers Most of All**, 2012 Jul 24. ([link](#))
10. *Chicago Tribune*, **Feel like you're faking it? That might not be a bad thing**, 2012 Jul 25. ([link](#))
11. *Reuters*, **Chart of the day, party neighborhood edition**, 2012 Sep 06. ([link](#))
12. *Vice Magazine*, **Blinking Prosthetics and a Better Robocop: Neural Interfacing Tech Is Booming**, 2012 Oct 23. ([link](#))
13. *Wired*, **Pseudoscience Saps the Power of the TEDx Brand**, 2012 Dec 07. ([link](#))
14. *Mountain View Voice*, **In data analysis, details matter**, 2013 Mar 15. ([link](#))

Miscellaneous

- *The Eyes of Nye*, **Addiction**, 2003.

SCIENTIFIC WRITING

2012 – present Blogger, [BrainFacts.org](#): public information initiative of *The Kavli Foundation*, the *Gatsby Charitable Foundation*, and the *Society for Neuroscience*

- *Nature Publishing Group* ([link](#))
- *Scientific American* ([link](#))([link](#))
- **Media:** *Skeptically Speaking Radio* ([link](#))
- *O'Reilly Media* ([link](#))([link](#))

- Media:** *Forbes* ([link](#))

• *Oscillatory Thoughts* ([link](#))

Media: *The Guardian* ([link](#)); *The Atlantic* ([link](#)); *MindHacks* ([link](#)); *The New Yorker* ([link](#)); *MindHacks* ([link](#)); *Forbes* ([link](#)); *BoingBoing* ([link](#)); *Seattle Post Intelligencer* ([link](#)); *BoingBoing* ([link](#)); *Forbes* ([link](#)); *Newsweek* ([link](#)); *Forbes* ([link](#)); *London School of Economics* ([link](#))

CONFERENCE ABSTRACTS

1. Simon SL, Berman S, **Voytek BT**, Dacey J, Ling W, London ED. Deficits in reasoning and correlated abnormalities of regional cerebral glucose metabolism in methamphetamine abusers. *Cognitive Neuroscience Society*, New York City, NY, USA. 2003
2. Simon SL, Berman S, **Voytek BT**, Dacey J, Ling W, London ED. Deficits on complex cognitive tasks and correlated regional cerebral glucose metabolism in methamphetamine abusers. *Society for Neuroscience*, New Orleans, LA, USA. 2003
3. **Voytek BT**, Berman S, Simon SL, Ling W, Hayashi K, London ED. Differences in regional brain function due to marijuana use by methamphetamine abusers. *Society for Neuroscience*, New Orleans, LA, USA. 2003
4. **Voytek BT**, Berman S, Simon SL, Ling W, London ED. Differences in cerebral metabolism but not cognitive performance due to marijuana use by methamphetamine abusers. *College for Problems on Drug Dependence*, San Juan, PR. 2004
5. London ED, Berman SM, **Voytek BT**, Simon SL, Monterosso JR, Geaga JA, Hong MS, Hayashi KM, Thompson PM, Mandelkern MA, Brody AL, Rawson RA, Ling W. Cerebral metabolic dysfunction and impaired vigilance in recently abstinent methamphetamine abusers. *American College of Neuropsychopharmacology*, San Juan, PR. 2004
6. London ED, Bartzokis G, Hassid BD, Payer D, Monterosso J, **Voytek B**. Greater age-related brain atrophy in methamphetamine abusers than in healthy comparison subjects. *Society for Neuroscience*, Washington, DC, USA. 2005
7. Fuhrmann Alpert G, Oga T, Swann NC, **Voytek B**, Knight RT. Increased motor network γ -band coherence during movement preparation predicts short reaction times: An EEG study. *Society for Neuroscience*, Washington, DC, USA. 2005
8. Bauer M, London ED, Berman SM, Rasgon N, Mandelkern MA, **Voytek B**, Whybrow PC. Regional cerebral metabolism and anxiety symptoms in bipolar depression: Effect of levothyroxine. *American College of Neuropsychopharmacology*, Waikoloa, HI, USA. 2005
9. Berman SM, **Voytek B**, Mandelkern MA, Hassid BD, Isaacson A, Monterosso J, Miotto K, Ling W, Woods R, London ED. Changes in regional cerebral metabolism during the initial month of abstinence from chronic methamphetamine abuse. *Society for Neuroscience*, Atlanta, GA, USA. 2006
10. **Voytek B**. The Girls Scouts of the USA's Girls Go Tech initiative: Partnership in neuroscience outreach and education. *Society for Neuroscience*, San Diego, CA, USA. 2007
11. **Voytek B**, Yago E, Barceló F, Knight RT. Flexible reorganization of function after unilateral frontal damage in humans. *Society for Neuroscience*, San Diego, CA, USA. 2007
12. **Voytek B**, Secundo L, Flinker A, Manley G, Knight RT. Comparing signals: Electroencephalography, electromyography, and electrocorticography. *Bay Area Neuro Gathering (BANG): SfN Local Chapter Research Meeting*, San Francisco, CA, USA. 2008

13. LaHue S, **Voytek B**, Knight RT. Effects of verbal working memory on visual attention. *Psychology Undergraduate Research Conference, University of California, Los Angeles*, Los Angeles, CA, USA. 2008
14. Tseng L, **Voytek B**, Knight RT. Effects of aging and frontal lesions on posterior visual working memory. *Psychology Undergraduate Research Conference, University of California, Los Angeles*, Los Angeles, CA, USA. 2008
15. **Voytek B**, Dam C, Yago E, Vogel E, and Knight RT. Flexible reorganization of human prefrontal cortex following stroke. *International Conference on Cognitive Neuroscience X*, Bodrum, Turkey. 2008
16. Secundo L, Adeen F, **Voytek B**, Chang E, Barbaro NM, Kirsch HE, Stiver S, Gean AD, Manley G, and Knight RT. Subdural electrocorticographic and epidural electromyographic recording for brain machine interface. *International Conference on Cognitive Neuroscience X*, Bodrum, Turkey. 2008
17. **Voytek B**, Secundo L, Bidet-Caulet A, Scabini D, Stiver S, Gean AD, Manley G, Knight RT. A new model for high spatial and temporal resolution in human electrophysiology: Decompressive craniectomy. *Society for Neuroscience*, Washington, DC, USA. 2008
18. **Voytek B**, Secundo L, Bidet-Caulet A, Scabini D, Stiver S, Gean AD, Manley G, Knight RT. A new model for high spatial and temporal resolution in human electrophysiology: Decompressive craniectomy. *National Neurotrauma Society Symposium*, Orlando, FL, USA. 2008
19. **Voytek B**, Vogel EK, Knight RT. Human working memory deficits and cognitive recovery after prefrontal or basal ganglia lesions. *Society for Neuroscience*, Chicago, IL, USA. 2009
20. Løvstad M, Funderud I, Lindgren M, Endestad T, Due-Tønnessen P, Meling T, **Voytek B**, Knight RT, Solbakk AK. Auditory novelty processing in patients with orbitofrontal or lateral prefrontal lesions: An event-related potential (ERP) study. *The 20th Annual Rotman Research Institute Conference: The Frontal Lobes*, Toronto, ON, Canada. 2010
21. **Voytek B**, Knight RT. Top-down memory deficits after unilateral prefrontal or basal ganglia lesions. *The 20th Annual Rotman Research Institute Conference: The Frontal Lobes*, Toronto, ON, Canada. 2010
22. **Voytek B**, Secundo L, Manley GT, Knight RT. Hemispherectomy: A new model for semi-invasive BMI. *Fourth International BCI Meeting*. Asilomar, Pacific Grove, CA, USA. 2010
23. Cano ME, Shestuyuk A, Flinker A, **Voytek B**, Paz-Alonso PM, Parvizi J, Crone NE, Knight RT. High gamma hippocampal response from human iEEG recordings predicts covert memory retrieval. *Society for Neuroscience*, San Diego, CA, USA. 2010
24. Funderud I, Løvstad M, Lindgren M, Endestad T, Due-Tønnessen P, Meling T, **Voytek B**, Knight RT, Solbakk AK. Contingent negative variation in patients with orbitofrontal and lateral lesions in the prefrontal cortex. *Society for Neuroscience*, San Diego, CA, USA. 2010
25. Liu Y, **Voytek B**, Knight RT, Ding M. Prefrontal lesion impairs visual attention mechanisms. *Society for Neuroscience*, San Diego, CA, USA. 2010
26. **Voytek B**, LaHue S, Davis M, Tseng L, Knight RT. Oscillatory network dynamics in human working memory and attention. *Society for Neuroscience*, San Diego, CA, USA. 2010
27. Voytek JB, **Voytek B**. brainSCANr: Mapping Brain Structure, Function, and Disease Relationships with PubMed. *Organization for Human Brain Mapping*, Quebec City, QC, Canada. 2011.
28. **Voytek B**, Knight RT. The Cognitive Role of Cross-frequency Coupling. *International Conference on Cognitive Neuroscience XI*, Mallorca, Spain. 2011
29. Voytek JB, **Voytek B**. Hypothesis generation and reconstruction of the connectome and cognome from the literature. *Society for Neuroscience*, Washington, DC, USA. 2011
30. Voytek JB, **Voytek B**, Warp E. User experience design for children's neuroscience education. *Society for Neuroscience*, New Orleans, LA, USA. 2012

31. **Voytek B**, Badre D, Kayser AS, Fegen D, Chang EF, Crone NE, Parvizi J, Knight RT, D'Esposito M. Phase/amplitude coupling supports network organization in human frontal cortex. *Society for Neuroscience*, New Orleans, LA, USA. 2012
32. **Voytek B**, Porat S, Chamberlain J, Balthazor J, Greenberg Z, Gill N, Gazzaley A. Examining the efficacy of the iPad and Xbox Kinect for cognitive science research. *Entertainment Software and Cognitive Neurotherapeutics Society*, Los Angeles, CA, USA. 2013
33. **Voytek B** & Gunduz A. Neuronal ensembles for BCI: Local field potentials and electrocorticography. *Fifth International BCI Meeting*, Asilomar, Pacific Grove, CA, USA. 2013.
34. **Voytek B**, Case J, Tempesta ZR, Knight RT, & Gazzaley A. Age-related Increases in Neuronal Noise with Decreased Phase/Amplitude Coupling. *Cognitive Neuroscience Society*, San Francisco, CA, USA. 2013
35. Greenberg Z, Gill N, Porat S, Samaha J, Kader T, **Voytek B**, Gazzaley A. Increased visual cortical noise decreases cued visual attention distribution. *Cognitive Neuroscience Society*, San Francisco, CA, USA. 2013

TEACHING EXPERIENCE

Graduate Student Instructor

- Marion Diamond, IB 245: Func Neuroanatomy, *University of California, Berkeley* 2008
Overall Student Evaluation: 6.94/7.00
- Marion Diamond, IB 245: Func Neuroanatomy, *University of California, Berkeley* 2007
Overall Student Evaluation: 6.80/7.00
- Jeffrey Winer, MCB 163: Mamm Neuroanatomy, *University of California, Berkeley* 2005
Overall Student Evaluation: 6.65/7.00

Guest Lectures

- Radiation Safety, Clinical Resource Center, *University of California, Los Angeles* 2003
- Jeffrey Winer, MCB 163: Mamm Neuroanatomy, *University of California, Berkeley* 2005
- Marion Diamond, IB 245: Func Neuroanatomy, *University of California, Berkeley* 2007
- Adeen Flinker, MCB 165: Mol Neurobiology, *University of California, Berkeley* 2008
- Sheila Katz, Soci 340: Drugs and Society, *Sonoma State University* 2008
- Avgusta Shestyuk, Psych 130: Clinical Psychology, *University of California, Berkeley* 2008
- Avgusta Shestyuk, Psych 130: Clinical Psychology, *University of California, Berkeley* 2009
- Jose Carmena, CogSci C1: Introduction to Cognitive Science, *University of California, Berkeley* 2009
- Sheila Katz, Soci 340: Drugs and Society, *Sonoma State University* 2009
- Sonia Bishop, Neuroimaging Seminar Series: Human Electrophysiology, *University of California, Berkeley* 2009
- George Lakoff, Linguis 290: Neurolinguistics, *University of California, Berkeley Department of Cognitive Science*, 2010
- Joaquin A Anguera, Psy 498: Cognitive Neuroscience, *San Francisco State University*, 2012

ACADEMIC MENTORING

- 2007 – 2008 Lisa Tseng, *University of California, Berkeley*
Senior Honor's Thesis: *Effects of Aging Visual Working Memory Networks*
- 2007 – 2009 Sara LaHue, *University of California, Berkeley*
Senior Honor's Thesis: *Electrophysiological Effects of Verbal and Spatial Working Memory Load on Attention*
- 2012 – 2013 John Case, *University of California, Berkeley*
- 2012 – 2013 Jason Samaha, *San Francisco State University*
- 2012 – 2013 Navdeep Gill, *California State University, East Bay*
- 2012 – 2013 Zachary Greenberg, *San Francisco State University*

REJECTIONS AND FAILURES

- *National Science Foundation: Graduate Research Fellowship*, 2 failures, never awarded
- *University of California Berkeley: Teaching Effectiveness Award*, not awarded
- *7th Iteration of the Places & Spaces: Mapping Science Exhibit on "Science Maps as Visual Interfaces to Digital Libraries"* (2011), submission rejected
- Voytek *et al.* (2010), *J Cogn Neurosci* 2010: Rejected from 3 journals
- Voytek & Knight (2010), *Proc Natl Acad Sci USA*: rejected from 2 journals
- Voytek *et al.* (2010) *Neuron*: Rejected from 3 journals and twice from *Neuron*
- *University of California President's Postdoctoral Fellowship Program*: Not awarded
- *Branco Weiss Fellowship*: Not awarded
- *Glushko Dissertation Prize*: Nominated, not awarded
- *AAAS Early Career Award for Public Engagement with Science*: Nominated, not awarded
- Voytek *et al.* (2012), *PLoS One*: Rejected from 7 journals
- Voytek & Voytek (2012), *J Neurosci Methods*: Rejected from 13 journals
- Voytek *et al.* (2013), *NeuroImage*: Rejected from 2 journals and once from *NeuroImage*

ERDÖS

1. **Bollobás B**, Erdős P. Extremal problems in graph theory. *Mat. Lapok* 13 1962 143-152.
2. Kozma R Puljic M, Balister P, **Bollobás B**, **Freeman WJ**. Phase transitions in the neuropercolation model of neural populations with mixed local and non-local interactions. *Biol. Cybernet.* 92 (2005), no. 6, 367-379.
3. Menon V, **Freeman WJ**, Cuttillo BA, Desmond JE, Ward MF, Bressler SL, Laxer KD, **Barbaro N**, Gevins AS. Spatio-temporal correlations in human gamma band electrocorticograms. *Electroencephalogr Clin Neurophysiol.* 1996 Feb; 98(2): 89-102.
4. Secundo L, Adeen F, **Voytek B**, Chang E, **Barbaro NM**, Kirsch HE, Stiver S, Gean AD, Manley G, and Knight RT. Subdural Electrographic and Epidural Electromenigraphic Recording for Brain Machine Interface. *International Conference on Cognitive Neuroscience X*, Bodrum, Turkey. 2008