

BT Thomas Yeo

Electrical & Computer Engineering
National University of Singapore
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EDUCATION

Massachusetts Institute of Technology 2004 - 2010
Ph.D. in Computer Science
GPA: 5.0/5.0
Advisors: Polina Golland (MIT) & Bruce Fischl (Harvard Medical School)

Stanford University 1998 - 2002
B.S. & M.S. in Electrical Engineering
Frederick Terman Award
GPA 4.0/4.0 (Frederick Terman Award)
GRE Verbal 800/800, Quantitative 800/800, Analytical 6.0/6.0

RESEARCH INTERESTS

Machine Learning, Neuroscience, Brain Imaging, Mental Disorders, Big Data

APPOINTMENTS

Assistant Professor, Electrical & Computer Engineering
National University of Singapore Nov 2013 - Present

Assistant Professor, Clinical Imaging Research Centre
National University of Singapore Nov 2013 - Present

Assistant Professor, Singapore Institute for Neurotechnology
National University of Singapore Nov 2013 - Present

Postdoctoral Associate, Center for Cognitive Neuroscience
Duke-NUS Graduate Medical School 2011 - 2013

Postdoctoral Associate, Center for Brain Science
Howard Hughes Medical Institute & Harvard University 2009 - 2011

Research Assistant, Martinos Center for Biomedical Imaging
Harvard Medical School 2005 - 2009

Research Assistant, Computer Science & Artificial Intelligence Lab
Massachusetts Institute of Technology 2004 - 2010

Visiting Researcher, Asclepios Group
French National Institute for Computer Science and Control Summer 2010

TEACHING EXPERIENCE

Faculty at National University of Singapore Nov 2013 - Present
Undergrad & graduate classes on machine learning & signal processing
Average instructor rating: 4.6/5.0

KEY PUBLICATIONS

Full publication list available in [Appendix](#) or [Google Scholar](#)

1. Bertolero MA, [Yeo BTT](#), D'Esposito M (2015) The modular and integrative functional architecture of the human brain. *Proceedings of the National Academy of Sciences USA*, 112:E6798-E6807
2. [Yeo BTT](#) et al. (2015) Functional specialization and flexibility in human association cortex. *Cereb Cortex*, 25:3654-3672
3. Buckner RL, Krienen FM, [Yeo BTT](#) (2013). Opportunities and limitations of functional connectivity MRI. *Nature Neuroscience*, 16:832-837
4. [Yeo BTT](#), Krienen FM, Sepulcre J, Sabuncu MR, Lashkari L, Hollinshead M, Roffman JL, Smoller JW, Zillei L, Polimeni JM, Fischl B, Liu H, Buckner RL (2011) The organization of the human cerebral cortex revealed by intrinsic functional connectivity. *J Neurophysiology* 106:1125-1165
5. Sabuncu MR, [Yeo BTT](#), Van Leemput K, Fischl B, Golland P (2010) A generative model for image segmentation based on label fusion. *IEEE Trans Med Imaging* 29:1714-1729
6. [Yeo BTT](#), Sabuncu MR, Vercauteren T, Ayache N, Fischl B, Golland P (2010) Spherical demons: fast diffeomorphic landmark-free surface registration. *IEEE Trans Med Imaging* 29:650-668

AWARDS (SELECTED)

NUS Young Investigator Award	2015
Best Paper in 5 years: MICCAI Young Investigator Publication Impact Award	2011
Best Paper Finalist: MICCAI Young Scientist Award in Image Registration	2008
Best Paper Winner: MICCAI Young Scientist Award in Computational Anatomy	2007
A*STAR National Science Fellowship Full funding for PhD studies at MIT	2004 - 2010
Frederick E. Terman Award Top 5% Stanford Engineering Graduating Class	2002
Hewlett-Packard Agilent Technologies Project Award	2001
PSC Overseas Merit Scholarship Full funding for undergraduate studies at Stanford	1998 - 2002
Bronze Medal, International Physics Olympiad	1997

GRANTS (SELECTED)

PI, NUS Young Investigator Award, SGD\$500,000 Unsupervised Machine Learning of Alzheimer's Disease Subtypes	2016 - 2019
PI, MOE Tier 2 Grant, SGD\$876,000 Probabilistic Fusion of Complementary Information for Brain Network Segmentation	2015 - 2018
Co-I, NUS Strategic Research Grant, SGD\$5,000,000 Memory Networks in Rodents and Primate	2015 - 2018

PUBLIC SOFTWARE

Software available at <https://sites.google.com/site/yeoyeo02/software>

Cognitive Components Estimated From 10,449 Imaging Experiments Incorporated into Harvard Medical School FreeSurfer Software 6.0 (>18K users)	2015
Resting-State Atlases of Brain Networks Estimated from 1000 subjects Incorporated into Harvard Medical School FreeSurfer Software 5.2 (>18K users) Released as part of the NIH Human Connectome Project	2011
Non-parametric Image Segmentation Software	2010
Spherical Demons: Fast Surface Registration	2010
Diffusion Registration with Exact Finite Strain Differential	2009
Overcomplete Spherical Wavelets	2009

TALKS (SELECTED)

UC Berkeley, Brain Imaging Center Research Day Keynote Hierarchical Bayesian Models of Brain Function and Disorder	Jan 2016 Berkeley, CA
Stanford University, Poldrack Lab Hierarchical Bayesian Models of Brain Function and Disorder	Jan 2016 Stanford, CA
University of Washington in St. Louis, NIAC Seminar Series Hierarchical Bayesian Models of Brain Function and Disorder	Jan 2016 St. Louis, MO
Boston University, Center for Systems Neuroscience Seminar Series Hierarchical Bayesian Models of Brain Function and Disorder	Jan 2016 Boston, MA
MIT, Golland Lab Hierarchical Bayesian Models of Brain Function and Disorder	Jan 2016 Cambridge, MA
Harvard Medical School, Martinos Center BrainMap Seminar Hierarchical Bayesian Models of Brain Function and Disorder	Feb 2010 Charlestown, MA
Human Brain Mapping Workshop From Mapping Functions to Functional Mapping Functional Specialization and Flexibility in Human Association Cortex	Jun 2015 Honolulu, USA
Brain Connectivity Workshop Network Organization in Human Association Cortex	Jun 2014 Hamburg, Germany
Whistler Workshop on Brain Function Functional Specialization and Confluence in Human Association Cortex	Mar 2014 Whistler, Canada
IEEE Life Science Grant Challenge Large-Scale Analytics of Brain Imaging Data	Dec 2013 Singapore
Stanford University, Stanford Cognitive and Systems Neuroscience Lab Functional Specialization and Confluence in Human Association Cortex	Nov 2013 Stanford, USA

UC Berkeley , D'Esposito Lab Functional Specialization and Confluence in Human Association Cortex	Nov 2013 Berkeley, USA
MICCAI Workshop on Mathematical Methods for Brain Connectivity Organization of Human Brain Estimated by Intrinsic Functional Connectivity	Sep 2013 Nagoya, Japan
Boston University , Graduate Program for Neuroscience Large Scale Organization of the Human Cerebral Cortex	Nov 2011 Boston, USA
Harvard Medical School , Martinos Center Brain Mapping Seminar Large Scale Organization of the Human Cerebral Cortex	May 2011 Charlestown, USA
Harvard University , Center for Brain Science Neurolunch Large Scale Organization of the Human Cerebral Cortex	May 2011 Cambridge, USA
John Hopkins , Center for Imaging Science Supervised Image Registration and Segmentation of Brain Images	May 2011 Baltimore, USA
Human Brain Mapping Workshop Multi-Subject Surface-Based Analysis of fMRI Data Beyond Blind Anatomical Alignment for Analysis of Brain Function	Jun 2010 Barcelona, Spain
Harvard Medical School , Martinos Center BrainMap Seminar Learning Application-Optimal Image Registration	Feb 2010 Charlestown, USA
University of Oxford , FMRI Learning Task-Optimal Image Registration	Sep 2009 Oxford, UK
IBM Almaden Research Center Spherical Demons: Fast Surface Registration	Jun 2009 San Jose, USA
Ecole Centrale Paris , Medical Imaging and Computer Vision Group Spherical Demons: Fast Diffeomorphic Landmark-Free Surface Registration	May 2008 Paris, France
Paris Descartes University Spherical Demons: Fast Diffeomorphic Landmark-Free Surface Registration	May 2008
Duke-NUS , Cognitive Neuroscience Lab Goal-specific Atlases	Jan 2008 Singapore
INRIA , Asclepios Group Registration, Segmentation and Shape Analysis of Cortical Surfaces	Aug 2007 Nice, France

PROFESSIONAL SERVICES

OHBM Committee on Best-practices in Data-Analysis and Sharing	2014 - Present
Program Committee, MICCAI Multimodal Brain Image Analysis Workshop	2012 - 2013
Reviewer for PNAS, Nature Neuroscience, Neuroimage, Cerebral Cortex, IEEE Transactions on Medical Imaging, Frontiers in Brain Imaging Methods, Biological Psychiatry, Medical Image Analysis, Journal of Neuroscience, IEEE Transactions on Image Processing, Sleep, MICCAI	2006 - Present

APPENDIX: PUBLICATION LIST

H-INDEX = 24 (source: <https://scholar.google.com.sg/citations?user=BOUzsU8AAAAAJ&hl=en>)

BOOK CHAPTERS

1. Yeo BTT (2015) Automatic labeling of the human cerebral cortex. In: Arthur W. Toga, editor. Brain Mapping: An Encyclopedic Reference. Academic Press: Elsevier, vol 1, pp. 357-363.

JOURNALS / PERSPECTIVES (* INDICATES EQUAL CONTRIBUTION)

1. Krienen FM, Yeo BTT, Ge T, Buckner RL, Sherwood C (2016) Transcriptional profiles of supragranular-enriched genes associate with corticocortical network architecture in the human brain. Proc Natl Acad Sci USA 113:E469-E478
2. Bertolero AM, Yeo BTT, D'Esposito M (2015) The modular and integrative functional architecture of the human brain. Proc Natl Acad Sci USA 112:E6798-E6807
3. Holmes AJ, Yeo BTT (2015) From phenotypic chaos to neurobiological chaos. Nat Neurosci 18:1532-1534
4. Yeo BTT, Krienen FM, Eickhoff SB, Yaakub SN, Fox PT, Buckner RL, Asplund CL, Chee MWL (2015) Functional specialization and flexibility in human association cortex. Cereb Cortex 25:3654-3672
5. Ong JL, Kong DY, Chia TTY, Tandj J, Yeo BTT, Chee MWL (2015). Co-activated yet disconnected - neural correlates of eye closures when trying to stay awake. Neuroimage 118:553-562
6. Yeo BTT, Tandj J, Chee MWL (2015) Functional connectivity during rested wakefulness predicts vulnerability to sleep deprivation. Neuroimage 111:147-158.
7. Krienen FM, Yeo BTT, Buckner RL (2014) Reconfigurable state-dependent functional coupling modes clusters around a core functional architecture. Philos Trans Roy Soc B. 369:20130526
8. Buckner RL, Yeo BTT (2014) Borders, Map Clusters, and Supra-Areal Organization of the Visual Cortex. Neuroimage 93:293-297
9. Yeo BTT, Krienen FM, Chee MWL, Buckner RL (2014) Estimates of segregation and overlap of functional connectivity networks in the human cerebral cortex. Neuroimage 88:212-227
10. Baker JT, Holmes AJ, Masters GA, Yeo BTT, Krienen FM, Buckner RL, ngr D (2014). Disruption of Cortical Association Networks in Schizophrenia and Psychotic Bipolar Disorder. JAMA Psychiatry 71:109-118 (COVER)
11. Buckner RL, Krienen FM, Yeo BTT (2013). Opportunities and limitations of functional connectivity MRI. Nature Neuroscience, 16:832-837
12. Mueller S, Wang D, Fox MD, Yeo BTT, Sepulcre J, Sabuncu M, Shafee R, Lu J, Liu H (2013) Individual variability in functional connectivity architecture of the human brain. Neuron 3:586-595
13. Aganj I, Yeo BTT, Sabuncu MR, Fischl B (2013) On removing interpolation and resampling artifacts in rigid image registration. IEEE Trans Image Process 22:816-827
14. Choi EY, Yeo BTT, Buckner RL (2012) The organization of the human striatum revealed by intrinsic functional connectivity. J Neurophysiology 108:2242-2263 (COVER)
15. Sepulcre J, Sabuncu MR, Yeo BTT, Liu H, Johnson KA (2012) Stepwise connectivity of the modal cortex reveals the multimodal organization of the human brain. J Neurosci 32:10649-10661
16. Anderson MW, Sabuncu MR, Yeo BTT, Fischl B, Greve DN, Kochunov P, Nichols TE, Blangero J, Glahn DC (2012) Measuring and comparing brain cortical surface area and other areal quantities. Neuroimage 61:1428-1443

17. Buckner RL, Krienen FM, Castellanos A, Diaz JC, Yeo BTT (2011) The organization of the human cerebellum revealed by intrinsic functional connectivity. *J Neurophysiology* 106:2322-2345
18. Yeo BTT*, Krienen FM*, Sepulcre J, Sabuncu MR, Lashkari L, Hollinshead M, Roffman JL, Smoller JW, Zille L, Polimeni JM, Fischl B, Liu H, Buckner RL (2011) The organization of the human cerebral cortex revealed by intrinsic functional connectivity. *J Neurophysiology* 106:1125-1165 ([Recommended by Faculty of 1000: http://f1000.com/13521958](http://f1000.com/13521958))
19. Sabuncu MR, Desikan RS, Sepulcre J, Yeo BTT, Liu H, Schmansky N, Reuter M, Weiner MW, Buckner RL, Sperling RA, Fischl B (2011) The dynamics of cortical and hippocampal atrophy in Alzheimer's disease. *Archives of Neurology* 68:1040-1048
20. Sepulcre J, Liu H, Talukdar T, Martincorena I, Yeo BTT, Buckner RL (2010) The organization of local and distant functional connectivity in the human brain. *PLoS Comput Biol* 6: e1000808
21. Sabuncu MR*, Yeo BTT*, Van Leemput K, Fischl B, Golland P (2010) A generative model for image segmentation based on label fusion. *IEEE Trans Med Imaging* 29:1714-1729
22. Yeo BTT, Sabuncu MR, Vercauteren T, Holt DJ, Amunts A, Zilles K, Golland P, Fischl B (2010b) Learning task-optimal registration cost functions for localizing cytoarchitecture and function in the cerebral cortex. *IEEE Trans Med Imaging* 29:1424-1441
23. Yeo BTT*, Sabuncu MR*, Vercauteren T, Ayache N, Fischl B, Golland P (2010a) Spherical demons: fast diffeomorphic landmark-free surface registration. *IEEE Trans Med Imaging* 29:650-668
24. Klein A, Ghosh S, Avants B, Yeo BTT, Fischl B, Ardekani B, Gee J, Mann JJ, Parsey RV (2010) Evaluation of volume-based and surface-based brain image registration methods. *Neuroimage* 51:214-220
25. Yeo BTT, Vercauteren T, Fillard P, Peyrat JM, Pennec X, Golland P, Ayache N, Clatz O (2009) DT-REFinD: diffusion tensor registration with exact finite-strain differential. *IEEE Trans Med Imaging* 28:1914-1928
26. Fischl B, Stevens A, Rajendran N, Yeo BTT, Greve D, Van Leemput K, Polimeni J, Kakunoori S, Buckner RL, Pacheco J, Salat D, Melcher J, Frosch M, Hyman B, Grant PE, Rosen BR, van der Kouwe A, Wiggins G, Wald L, Augustinack J (2009) Predicting the location of entorhinal cortex from MRI. *Neuroimage* 47:8-17
27. Yeo BTT*, Sabuncu MR*, Desikan R, Fischl B, Golland P (2008b) Effects of registration regularization and atlas sharpness on segmentation accuracy. *Med Image Anal* 12:603-615
28. Yeo BTT, Ou W, Golland P (2008a) On the construction of invertible filter banks on the 2-sphere. *IEEE Trans Image Process* 17:283-300
29. Fischl B, Rajendran N, Busa E, Augustinack J, Hinds O, Yeo BTT, Mohlberg H, Amunts K, Zilles K (2008) Cortical folding patterns and predicting cytoarchitecture. *Cereb Cortex* 18:1973-1980

FULL LENGTH REFEREED CONFERENCE PAPERS

1. Yeo BTT, Sabuncu M, Golland P, Fischl B (2009) Task-optimal registration cost functions. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI), vol 5761, LNCS, 598-606 ([Hamlyn Centre for Medical Robotics Travel Grant](#))
2. Sabuncu MR, Yeo BTT, Van Leemput K, Fischl B, Golland P (2009) Supervised non-parametric image parcellation. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI), vol 5762, LNCS, 1075-1083
3. Sabuncu MR, Yeo BTT, Van Leemput K, Golland P (2009) Asymmetric image-template registration. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI), vol 5761, LNCS, 565-573

4. Sabuncu MR, [Yeo BTT](#), Van Leemput K, Fischl B, Golland P (2009) Nonparametric mixture models for supervised image parcellation. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI) workshop on Probabilistic Models for Medical Image Analysis (PMMIA), 301-313
5. [Yeo BTT](#), Sabuncu MR, Vercauteren T, Ayache N, Fischl B, Golland P (2008) Spherical demons: fast surface registration. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI), vol 5241, LNCS, 745-753 ([MICCAI Young Scientist Finalist](#))
6. [Yeo BTT](#), Yu P, Grant PE, Fischl B, Golland P (2008) Shape analysis with overcomplete spherical wavelets. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI), vol 5241, LNCS, 468-476
7. [Yeo BTT](#), Vercauteren T, Fillard P, Pennec X, Golland P, Ayache N, Clatz O (2008) DTI registration with exact finite-strain differential. In Proc Int Symp Biomed Imag: From Nano to Macro (ISBI), 700-703 ([NIH Travel Grant](#))
8. [Yeo BTT](#), Sabuncu MR, Desikan R, Fischl B, Golland P (2007) Effects of registration regularization and atlas sharpness on segmentation accuracy. In Proc Int Conf Med Image Computing and Computer Assist Intervent (MICCAI), vol 4791, LNCS, 683-691 ([MICCAI Young Scientist Award](#), [MICCAI Publication Impact Award](#))
9. [Yeo BTT](#), Sabuncu MR, Mohlberg H, Amunts K, Zilles K, Golland P, Fischl B (2007) What data to co-register for computing atlases. In Proc Workshop Math Methods Biomed Image Anal (MMBIA), Int Conf Comput Vision
10. [Yeo BTT](#), Ou W, Golland P (2006) Invertible filter banks on the 2-sphere. In Proc Int Conf Image Process (ICIP), 2161-2164

ABSTRACTS

1. [Yeo BTT](#), Krienen FM, Eickhoff SB, Fox PT, D'Esposito M, Bertolero MA (2015) Reverse inference revisited. Soc Neurosci, Chicago
2. Krienen FM, [Yeo BTT](#), Charvet CJ, Buckner RL, Sherwood CC (2015) Transcriptional profiles of supragranular-enriched genes predict corticocortical network architecture in the human brain. Soc Neurosci, Chicago
3. Bertolero MA, [Yeo BTT](#), D'Esposito M (2015) Dynamic modularity and integration during spontaneous neural activity. Soc Neurosci, Chicago
4. Reinen JM, [Yeo BTT](#), Hutchison RM, Baker JT, Roffman JL, Smoller JW, Holmes AJ (2015) Exploring the dynamic organization of the human brain at rest. Soc Neurosci, Chicago
5. Ong JL, Kong DY, Tandi J, [Yeo BTT](#), Chee MWL (2015) Neural correlates of cued versus involuntary eye closures. Hum Brain Mapp, Honolulu
6. [Yeo BTT](#), Krienen F, Eickhoff S, Yaakub S, Fox P, Buckner R, Asplund C, Chee MWL (2014) Functional specialization and confluence in the human association cortex. Hum Brain Mapp, Hamburg
7. [Yeo BTT](#), Tandi J, Ong JL, Asplund C, Kong DY, Chee MWL (2014) Intrinsic organization of well-rested individuals vulnerable to sleep deprivation. Hum Brain Mapp, Hamburg
8. Asplund CL, [Yeo BTT](#), Krienen FM, Yaahub SN, Chee MWL (2013) Large-scale meta-analysis of functional specializations in prefrontal cortex. Soc Neurosci, San Diego
9. [Yeo BTT](#), Krienen FM, Asplund CL, Yaahub SN, Chee MWL (2013) Discovering latent cognitive processes involved in internal mentation tasks via a large-scale meta-analysis. Soc Neurosci, San Diego
10. Krienen FM, [Yeo BTT](#), Buckner RL (2013) Boundaries on functional connectivity boundaries. Hum Brain Mapp, Seattle ([Human Brain Mapping Travel Grant](#))

11. [Yeo BTT](#), Krienen FM, Yaakub SN, Asplund CL, Buckner RL, Chee MWL (2013) Inferring ontologies of mind-brain relations from neuroimaging data. Hum Brain Mapp, Seattle ([Human Brain Mapping Travel Grant](#))
12. [Yeo BTT](#), Krienen FM, Chee MWL, Buckner RL (2013) Estimates of segregation and overlap of functional connectivity networks in human cerebral cortex. Hum Brain Mapp, Seattle
13. Mueller S, Lu J, Wang D, [Yeo BTT](#), Sabuncu MR, Sepulcre J, Li K, Liu H (2012) Intra-subject and inter-subject variability of intrinsic functional connectivity. Hum Brain Mapp, Beijing
14. Anderson MW, Sabuncu MR, [Yeo BTT](#), Fischl B, Greve DN, Kochunov P, Nichols TE, Blangero J, Glahn DC (2012) Measuring and comparing brain cortical surface area and other areal quantities. Hum Brain Mapp, Beijing
15. Shafee R, Liu H, Sabuncu MR, [Yeo BTT](#), Buckner RL (2012) Asymmetry of the human cerebral cortex and its change with aging. Computational and Systems Neuroscience, Salt Lake City
16. [Yeo BTT](#), Krienen FM, Buckner RL (2011) Hierarchical organization of human cortical pathways inferred by intrinsic functional connectivity. Soc Neurosci, Washington DC
17. Choi EY, [Yeo BTT](#), Buckner RL (2011) Functional architecture of the human striatum revealed by intrinsic functional connectivity. Soc Neurosci, Washington DC
18. Holmes AJ, Hollinshead M, [Yeo BTT](#), Roffman JL, Smoller JW, Buckner RL (2011) Increased amygdala volume and decreased cingulate thickness reliably predict negative affect in the general population. Soc Neurosci, Washington DC
19. Holmes AJ, Hollinshead M, [Yeo BTT](#), Roffman JL, Smoller JW, Buckner RL (2011) Evidence for a limbic anxio-affective syndrome in the general population. Soc Res Psychopathology, Boston
20. Shafee R, Liu H, Sabuncu M, [Yeo BTT](#), Sepulcre J, Buckner RL (2011) Relationship between human functional networks and covariance in cortical thickness. Computational and Systems Neuroscience, Salt Lake City
21. [Yeo BTT](#), Sepulcre J, Sabuncu MR, Lashkari D, Roffman JL, Smoller JW, Fischl B, Liu H, Buckner RL (2010) Estimates of surface-based cortical networks using intrinsic functional connectivity From 1000 Subjects. Soc Neurosci, San Diego
22. Buckner RL, [Yeo BTT](#), Choi EY, Sepulcre J, Sabuncu MR, Roffman JL, Zollei L, Fischl B, Liu H, Smoller JW (2010) Estimates of Cerebellar, Thalamic, and Basal Ganglia Circuits. Soc Neurosci, San Diego
23. Shafee R, Liu H, Sabuncu M, [Yeo BTT](#), Sepulcre J, Buckner RL (2010) Anatomical and Functional Asymmetry in the Cerebral Cortex. Soc Neurosci, San Diego
24. Shafee R, Liu H, Sabuncu M, [Yeo BTT](#), Sepulcre J, Buckner RL (2010) Anatomical and Functional Asymmetry in the Cerebral Cortex. Sloan-Swartz Centers, New Haven
25. [Yeo BTT](#), Sabuncu M, Golland P, Fischl B (2009) Modeling the Relationship between Cortical Geometry and Cytoarchitectonics via Image Registration. Hum Brain Mapp, San Francisco ([Human Brain Mapping Travel Grant](#))