

Education

Washington University in St. Louis

Ph.D. in Imaging Science	2018-2023
M.S. in Electrical Engineering	2018-2022
B.A. in Biochemistry	2011-2015

Experience

Harvard University · MGH

2023-present

Research fellow (PI: Julie C. Price)

- Created an MRI-guided method to identify and correct for off-target binding in PET images

Washington University in St. Louis

2017-2023

Research assistant (PI: Tammie L.S. Benzinger)

- Created a PET-to-pathology pipeline to evaluate treatments in the first clinical trial in dominantly inherited Alzheimer disease
- Led a team to implement and evaluate the visual read procedure for the first FDA-approved tau PET radioligand
- Led a team to establish an imaging-to-pathology pipeline for the Knight Alzheimer Disease Research Center
- Mentored trainees in data acquisition, image analysis, computer programming, statistical modeling, and manuscript writing

Washington University in St. Louis/University of Oxford · FMRIB

2012-2015

Research assistant (PI: David C. Van Essen)

- Created an MRI-to-pathology pipeline to evaluate biases in brain connectivity maps developed by the Human Connectome Project

Programming languages

Bash, MATLAB, Python, R

Honors and awards

2024	American Association of Neuropathologists Travel Award	\$1,000
2023	PET/MR in Alzheimer's Disease and Related Dementias T32 Fellowship	\$75,184
2023	Poletsky Award	\$2,000
2021	McKelvey School of Engineering Dean's Scholarly Award	\$5,000
2020	Knight Alzheimer Disease Research Center T32 Fellowship	\$25,836
2020	Human Amyloid Imaging Travel Scholarship	\$1,000
2018	NSF Graduate Research Fellowship Program (GRFP)	\$138,000
2013	HHMI Summer Undergraduate Research Fellowship (SURF)	\$4,000
2011	National Merit Scholarship	\$2,500

Service

2024-2025	<i>Brain</i>	<i>Ad hoc</i> reviewer
2022-2023	Quantitative Imaging Biomarkers Alliance (QIBA) Tau Profile Committee	Assistant to the co-chairs
2022-2023	Imaging Science Student Council Executive Board	Co-founder
2020-2021	<i>Nature Reviews Neurology</i>	<i>Ad hoc</i> reviewer
2017-2023	Pathology And Imaging Neurodegeneration and Tau (PAINT) Committee	Co-founder

Publications

- 2024 Michelle E Farrell, Emma G Thibault, J Alex Becker, Julie C Price, Brian C Healy, Bernard J Hanseeuw, Rachel F Buckley, Heidi IL Jacobs, Aaron P Schultz, **Charles D Chen**, Reisa A Sperling, and Keith A Johnson. Spatial extent as a sensitive amyloid-PET metric in preclinical Alzheimer's disease. *Alzheimer's and Dementia*
- 2024 Stephanie A Schultz, Lei Liu, Aaron P Schultz, Colleen D Fitzpatrick, Raina Levin, Jean-Pierre Bellier, Zahra Shirzadi, Nelly Joseph-Mathurin, **Charles Chen**, Tammie LS Benzinger, Gregory S Day, Martin R Farlow, Brian A Gordon, Jason J Hassenstab, Clifford R Jack Jr, Mathias Jucker, Celeste M Karch, Jae-Hong Lee, Johannes Levin, Richard J Perrin, Peter R Schofield, Chengjie Xiong, Keith A Johnson, Eric McDade, Randall J Bateman, Reisa A Sperling, Dennis J Selkoe, Jasmeer P Chhatwal, and the Dominantly Inherited Alzheimer Network Investigators. Functional variations in gamma-secretase activity are critical determinants of the clinical, biomarker, and cognitive progression of autosomal dominant Alzheimer's disease. *Lancet Neurology*
- 2024 Stephanie Doering, Austin McCullough, Brian A Gordon, **Charles Chen**, Nicole McKay, Diana Hobbs, Sarah Keefe, Shaney Flores, Jalen Scott, Hunter Smith, Stephen Jarman, Kelley Jackson, Russ Hornbeck, Beau M Ances, Chengjie Xiong, Andrew J Aschenbrenner, Jason Hassenstab, Carlos Cruchaga, Alisha Daniels, Randall J Bateman, the Dominantly Inherited Alzheimer Network (DIAN) Investigators, John C Morris, and Tammie LS Benzinger. Deconstructing pathological tau by biological process in early stages of Alzheimer disease: a method for quantifying tau spatial spread in neuroimaging. *eBioMedicine*. <https://doi.org/10.1016/j.ebiom.2024.105080>
- 2024 Karin L Meeker, Patrick H Luckett, Nicolas R Barthélemy, Diana A Hobbs, **Charles Chen**, James Bollinger, Vitaliy Ovod, Shaney Flores, Sarah Keefe, Rachel L Henson, Elizabeth M Herries, Eric McDade, Jason J Hassenstab, Chengjie Xiong, Carlos Cruchaga, Tammie LS Benzinger, David M Holtzman, Suzanne E Schindler, Randall J Bateman, John C Morris, Brian A Gordon, and Beau M Ances. Comparison of cerebrospinal fluid, plasma, and neuroimaging biomarker utility in Alzheimer disease. *Brain Communications*. <https://doi.org/10.1093/braincomms/fcae081>
- 2024 Gemma Salvadó, Kanta Horie, Nicolas R Barthélemy, Jacob W Vogel, Alexa Pichet Binette, **Charles D Chen**, Andrew J Aschenbrenner, Brian A Gordon, Tammie LS Benzinger, David M Holtzman, John C Morris, Sebastian Palmqvist, Erik Stomrud, Shorena Janelidze, Rik Ossenkoppele, Suzanne E Schindler, Randall J Bateman, and Oskar Hansson. Disease staging of Alzheimer's disease using a CSF-based biomarker model. *Nature Aging*. <https://doi.org/10.1038/s43587-024-00599-y>
- 2024 Nicolas R Barthélemy, Gemma Salvadó, Suzanne Schindler, Yingxin He, Shorena Janelidze, Lyduine Collij, Benjamin Saef, Rachel L Henson, **Charles D Chen**, Brian A Gordon, Tammie LS Benzinger, John C Morris, Niklas Mattsson-Carlgrén, Sebastian Palmqvist, Rik Ossenkoppele, Erik Stomrud, Randall J Bateman, and Oskar Hansson. Highly accurate blood test for Alzheimer's disease comparable or superior to clinical CSF tests. *Nature Medicine*. <https://doi.org/10.1038/s41591-024-02869-z>
- 2024 Nelly Joseph-Mathurin, Rebecca L Feldman, Zahra Shirzadi, Carmen Toomer, Junie R Saint Clair, Yinjiao Ma, Nicole S McKay, Jeremy F Strain, Collin Kilgore, Karl A Friedrichsen, **Charles D Chen**, Brian A Gordon, Gengsheng Chen, Russ C Hornbeck, Parinaz Massoumzadeh, Austin A McCullough, Qing Wang, Yan Li, Guoqiao Wang, Sarah J Keefe, Stephanie A Schultz, Carlos Cruchaga, Gregory M Preboske, Clifford R Jack Jr, Jorge J Llibre-Guerra, Ricardo F Allegri, Beau M Ances, Sarah B Berman, William S Brooks, David M Cash, Gregory S Day, Nick C Fox, Michael Fulham, Bernardino Ghetti, Keith A Johnson, Mathias Jucker, William E Klunk, Christian la Fougère, Johannes Levin, Yoshiki Niimi, Hwamee Oh, Richard J Perrin, Gerald Reischl, John M Ringman, Andrew J Saykin, Peter R Schofield, Yi Su, Charlene Supnet-Bell, Jonathan Vöglein, Igor Yakushev, Adam M Brickman, John C Morris, Eric McDade, Chengjie Xiong, Randall J Bateman, Jasmeer P Chhatwal, and Tammie LS Benzinger. Presenilin-1 mutation position influences amyloidosis, small vessel disease, and dementia with disease stage. *Alzheimer's and Dementia*. <https://doi.org/10.1002/alz.13729>
- 2023 Kanta Horie, Gemma Salvadó, Nico Barthélemy, Shorena Janelidze, Yan Li, Yingxin He, Benjamin Saef, **Charles D Chen**, Hong Jiang, Olof Standberg, Alexa Pichet Binette, Sebastian Palmqvist, Chihiro Sato, Brian A Gordon, Tammie LS Benzinger, David M Holtzman, John C Morris, Niklas Mattsson-Carlgrén, Erik Stomrud, Rik Ossenkoppele, Suzanne E Schindler, Oskar Hansson, and Randall J Bateman. CSF MTBR-tau243 is a specific biomarker of tau tangle pathology in Alzheimer's disease. *Nature Medicine*. <https://doi.org/10.1038/s41591-023-02443-z>

- 2023 Stephanie A Schultz, Zahra Shirzadi, Aaron P Schultz, Lei Liu, Colleen D Fitzpatrick, Eric McDade, Alan Renton, Bianca Esposito, Nelly Joseph-Mathurin, Carlos Cruchaga, **Charles D Chen**, Alison Goate, Ricardo Francisco Allegri, Tammie LS Benzinger, Sarah Berman, Helena C Chui, Anne M Fagan, Martin R Farlow, Nick C Fox, Brian A Gordon, Neill R Graff-Radford, Jason J Hassenstab, Bernard J Hanseeuw, Anna Hofmann, Clifford R Jack Jr, Mathias Jucker, Celeste M Karch, Robert A Koeppe, Jae-Hong Lee, Allan I Levey, Johannes Levin, Ralph N Martins, Hiroshi Mori, John C Morris, James Noble, Richard J Perrin, Pedro Rosa-Neto, Stephen P Salloway, Raquel Sanchez-Valle, Peter R Schofield, Chengjie Xiong, Keith A Johnson, Randall J Bateman, Reisa A Sperling, Jasmeer P Chhatwal, and the Dominantly Inherited Alzheimer Network Investigators. Location of pathogenic variants in PSEN1 impacts progression of cognitive, clinical, and neurodegenerative measures in autosomal-dominant AD. *Aging Cell*. <http://doi.org/10.1111/accel.13871>
- 2023 **Charles Chen***, Maria Rosana Ponisio*, Jordan Lang, Shaney Flores, Suzanne Schindler, Anne Fagan, John Morris, and Tammie Benzinger. Comparing tau PET visual interpretation with tau PET quantification, CSF biomarkers, and longitudinal clinical assessment. *Journal of Alzheimer's Disease*. <https://doi.org/10.3233/JAD-230032>
- 2023 **Charles D Chen***, Austin McCullough*, Brian A Gordon*, Nelly Joseph-Mathurin, Shaney Flores, Nicole S McKay, Diana Hobbs, Russ Hornbeck, Anne M Fagan, Carlos Cruchaga, Alison M Goate, Richard J Perrin, Guoqiao Wang, Yan Li, Xinyu Shi, Chengjie Xiong, Michael J Pontecorvo, Gregory Klein, Yi Su, William E Klunk, Clifford Jack, Robert Koeppe, B Joy Snider, Sarah B Berman, Erik D Roberson, Jared Brosch, Ghulam Surti, Ivonne Z Jiménez-Velázquez, Douglas Galasko, Lawrence S Honig, William S Brooks, Roger Clarnette, David Wallon, Bruno Dubois, Jérémie Pariente, Florence Pasquier, Raquel Sanchez-Valle, Sergey Shcherbinin, Ixavier Higgins, Ilke Tunali, Colin L Masters, Christopher H van Dyck, Mario Masellis, Robin Hsiung, Serge Gauthier, Steve Salloway, David B Clifford, Susan Mills, Charlene Supnet-Bell, Eric McDade, Randall J Bateman, Tammie LS Benzinger, and for the DIAN-TU Study Team. Longitudinal head-to-head comparison of ¹¹C-PiB and ¹⁸F-florbetapir PET in a Phase 2/3 clinical trial of anti-amyloid- β monoclonal antibodies in dominantly inherited Alzheimer disease. *European Journal of Nuclear Medicine and Molecular Imaging*. <https://doi.org/10.1007/s00259-023-06209-0>
- 2023 Nicole S McKay, Brian A Gordon, Russ C Hornbeck, Aylin Dincer, Shaney Flores, Sarah Keefe, Nelly Joseph-Mathurin, Clifford R Jack, Robert Koeppe, Peter R Millar, Beau M Ances, **Charles D Chen**, Alisha Daniels, Diana A Hobbs, Kelley Jackson, Deborah Koudelis, Parinaz Massoumzadeh, Austin McCullough, Michael L Nickels, Farzaneh Rahmani, Laura Swisher, Qing Wang, Ricardo F Allegri, Sarah B Berman, Adam M Brickman, William S Brooks, David M Cash, Jasmeer P Chhatwal, Gregg Day, Martin R Farlow, Christian laFougère, Nick C Fox, Michael Fulham, Bernardino Ghetti, Neill Graff-Radford, Takeshi Ikeuchi, William Klunk, Jae-Hong Lee, Ralph Martins, Colin L Masters, Jonathan McConathy, Hiroshi Mori, James M Noble, Gerald Reischl, Christopher Rowe, Stephen Salloway, Raquel Sanchez-Valle, Peter R Schofield, Hiroyuki Shimada, Mikio Shoji, Yi Su, Kazushi Suzuki, Jonathan Vöglein, Igor Yakushev, Carlos Cruchaga, Jason Hassenstab, Celeste Karch, Eric McDade, Richard J Perrin, Chengjie Xiong, John C Morris, Randall J Bateman, Tammie LS Benzinger, and for the Dominantly Inherited Alzheimer Network. Positron emission tomography and magnetic resonance imaging methods and datasets within the Dominantly Inherited Alzheimer Network (DIAN). *Nature Neuroscience*. <https://doi.org/10.1038/s41593-023-01359-8>
- 2023 Farzaneh Rahmani, Saurabh Jindal, Cyrus A Raji, Wei Wang, Arash Nazeri, Gloria Guzman Perez-Carillo, Michelle M Miller-Thomas, Philipp Garner, Benedicte Marechal, Amit Shah, Mathis Zimmermann, **Charles D Chen**, Sarah Keefe, Pamela LaMontagne, and Tammie LS Benzinger. Validity assessment of an automated brain morphometry tool using patients with a de novo memory complaint. *American Journal of Neuroradiology*. <https://doi.org/10.3174/ajnr.A7790>
- 2023 Anna H Boerwinkle, Brian A Gordon, Julie Wisch, Shaney Flores, Rachel L Henson, Omar H Butt, Nicole McKay, **Charles D Chen**, Tammie LS Benzinger, Anne M Fagan, Benjamin L Handen, Bradley T Christian, Elizabeth Head, Mark Mapstone, Michael S Rafii, Sid O'Bryant, Florence Lai, H Diana Rosas, Joseph H Lee, Wayne Silverman, Adam M Brickman, Jasmeer P Chhatwal, Carlos Cruchaga, Richard J Perrin, Chengjie Xiong, Jason Hassenstab, Eric McDade, Randall J Bateman, Beau M Ances, on behalf of the Alzheimer's Biomarker Consortium-Down Syndrome, and the Dominantly Inherited Alzheimer Network. Amyloid PET in genetic causes of Alzheimer disease: Down syndrome versus autosomal dominant. *The Lancet Neurology*. [https://doi.org/10.1016/S1474-4422\(22\)00408-2](https://doi.org/10.1016/S1474-4422(22)00408-2)
- 2022 Aylin Dincer, **Charles D Chen**, Nicole S McKay, Lauren N Koenig, Austin McCullough, Shaney Flores, Sarah J Keefe, Stephanie A Schultz, Rebecca L Feldman, Nelly Joseph-Mathurin, Russ C Hornbeck, Carlos Cruchaga, Suzanne E Schindler, David M Holtzman, John C Morris, Anne M Fagan, Tammie LS Benzinger, and Brian A Gordon. APOE ϵ 4 genotype, amyloid- β , and sex interact to predict tau in regions of high APOE mRNA expression. *Science Translational Medicine*. <http://doi.org/10.1126/scitranslmed.abl7646>

- 2022 Guoqiao Wang*, Yan Li*, Chengjie Xiong, Eric McDade, David B Clifford, Susan L Mills, Anna M Santacruz, Andrew J Aschenbrenner, Jason Hassenstab, Tammie LS Benzinger, Brian A Gordon, Anne M Fagan, Kelley A Coalier, Jorge J Libre-Guerra, Austin McCullough, Nelly Joseph-Mathurin, **Charles Chen**, Catherine Mummery, Barbara A Wendelberger, Serge Gauthier, Mario Masellis, Karen C Holdridge, Roy Yaari, Saptarshi Chatterjee, John Sims, Paul Delmar, Geoffrey A Kerchner, Tobias Bittner, Carsten Hofmann, Randall J Bateman, and for the DIAN-TU Study Team. Evaluation of dose-dependent treatment effects after mid-trial dose escalation in biomarker, clinical, and cognitive outcomes for gantenerumab or solanezumab in dominantly inherited Alzheimer's disease. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*. <http://doi.org/10.1002/dad2.12367>
- 2022 Nelly Joseph-Mathurin*, Jorge J Llibre-Guerra*, Yan Li, Austin A McCullough, Carsten Hofmann, Jakub Wojtowicz, Ethan Park, Guoqiao Wang, Gregory M Preboske, Qing Wang, Brian A Gordon, **Charles D Chen**, Shaney Flores, Neelum Aggarwal, Sarah B Berman, Thomas D Bird, Sandra E Black, Bret Borowski, William S Brooks, Jasmeer P Chhatwal, Roger Clarnette, Carlos Cruchaga, Anne M Fagan, Martin Farlow, Nick C Fox, Serge Gauthier, Jason Hassenstab, Diana A Hobbs, Karen C Holdridge, Lawrence S Honig, Russ C Hornbeck, Ging-Yuek R Hsiung, Clifford R Jack Jr, Ivonne Z Jimenez-Velazquez, Mathias Jucker, Gregory Klein, Johannes Levin, Michele Mancini, Mario Masellis, Nicole S McKay, Catherine J Mummery, John M Ringman, Hiroyuki Shimada, Joy Snider, Kazushi Suzuki, David Wallon, Chengjie Xiong, Roy Yaari, Eric McDade, Richard J Perrin, Randall J Bateman, Stephen P Salloway, Tammie LS Benzinger, David B Clifford, and for the Dominantly Inherited Alzheimer Network Trials Unit. Amyloid-related imaging abnormalities in the DIAN-TU-001 trial of gantenerumab and solanezumab: lessons from a trial in dominantly inherited Alzheimer disease. *Annals of Neurology*. <https://doi.org/10.1002/ana.26511>
- 2022 Shaney Flores, **Charles D Chen**, Yi Su, Aylin Dincer, Sarah J Keefe, Nicole S McKay, Angela M Paulick, Gloria Guzman Perez-Carillo, Russ C Hornbeck, Manu S Goyal, Andrei G Vlassenko, Sally W Schwarz, Michael L Nickels, Dean F Wong, Zhude Tu, Jonathan McConathy, John C Morris, Tammie Benzinger, and Brian A Gordon. Investigating tau and amyloid tracer skull binding in studies of Alzheimer disease. *Journal of Nuclear Medicine*. <https://doi.org/10.2967/jnumed.122.263948>
- 2022 Patrick H Luckett, **Charlie Chen**, Brian A Gordon, Julie Wisch, Sarah B Berman, Jasmeer P Chhatwal, Carlos Cruchaga, Anne M Fagan, Martin R Farlow, Nick C Fox, Mathias Jucker, Johannes Levin, Colin L Masters, Hiroshi Mori, James M Noble, Stephen Salloway, Peter R Schofield, Adam M Brickman, William S Brooks, David M Cash, Michael J Fulham, Bernardino Ghetti, Clifford R Jack, Jonathan Vöglein, William Klunk, Robert Koeppe, Yi Su, Michael Weiner, Qing Wang, Dan Marcus, Deborah Koudelis, Nelly Joseph-Mathurin, Lisa Cash, Russ Hornbeck, Chengjie Xiong, Richard J Perrin, Celeste M Karch, Jason Hassenstab, Eric McDade, John C Morris, Tammie LS Benzinger, Randall J Bateman, Beau M Ances, and for the Dominantly Inherited Alzheimer Network (DIAN). Biomarker clustering in autosomal dominant Alzheimer disease. *Alzheimer's & Dementia*. <https://doi.org/10.1002/alz.052149>
- 2022 Farzaneh Rahmani, Marina Nguyen, **Charles D Chen**, Nicole McKay, Aylin Dincer, Nelly Joseph-Mathurin, Gengsheng Chen, Jingxia Liu, Hilary LP Orlowski, John C Morris, and Tammie Benzinger. Intracranial internal carotid artery calcification is not predictive of future cognitive decline. *Alzheimer's Research & Therapy*. <https://doi.org/10.1186/s13195-022-00972-2>
- 2021 **Charles D Chen**, Nelly Joseph-Mathurin*, Namita Sinha*, Aihong Zhou*, Yan Li, Karl Friedrichsen, Austin McCullough, Erin E Franklin, Russ Hornbeck, Brian Gordon, Vijay Sharma, Carlos Cruchaga, Alison Goate, Celeste Karch, Eric McDade, Chengjie Xiong, Randall J Bateman, Bernardino Ghetti, John M Ringman, Jasmeer Chhatwal, Colin L Masters, Catriona McLean, Tammayn Lashley, Yi Su, Robert Koeppe, Clifford Jack, William Klunk, John C Morris, Richard J Perrin, Nigel J Cairns**, and Tammie LS Benzinger**. Comparing amyloid- β plaque burden with antemortem PiB PET in autosomal dominant and late-onset Alzheimer disease. *Acta Neuropathologica*. <https://doi.org/10.1007/s00401-021-02342-y>
- 2021 Anna H Boerwinkle*, Julie K Wisch*, **Charles D Chen**, Brian A Gordon, Omar H Butt, Suzanne E Schindler, Courtney Sutphen, Shaney Flores, Aylin Dincer, Tammie LS Benzinger, Anne M Fagan, John C Morris, and Beau M Ances. Temporal correlation of CSF and neuroimaging in the Amyloid-Tau-Neurodegeneration model of Alzheimer disease. *Neurology*. <https://doi.org/10.1212/WNL.00000000000012123>
- 2020 **Charles D Chen**, Timothy R Holden, Brian A Gordon, Erin E Franklin, Yan Li, Dean W Coble, Hongbo Luo, Randall J Bateman, for the Dominantly Inherited Alzheimer Network (DIAN), for the Dominantly Inherited Alzheimer Network Trials Unit (DIAN-TU), Beau M Ances, Richard J Perrin, Tammie LS Benzinger, Nigel J Cairns, and John C Morris. Ante- and postmortem tau in autosomal dominant and late-onset Alzheimer disease. *Annals of Clinical and Translational Neurology*. <https://doi.org/10.1002/acn3.51237>

- 2019 Brian A Gordon, Tyler M Blazey, Jon Christensen, Aylin Dincer, Shaney Flores, Sarah Keefe, **Charles Chen**, Yi Su, Eric M McDade, Guoqiao Wang, Yan Li, Jason Hassenstab, Andrew Aschenbrenner, Russ Hornbeck, Clifford R Jack, Jr, Beau M Ances, Sarah B Berman, Jared R Brosch, Douglas Galasko, Serge Gauthier, James J Lah, Mario Masellis, Christopher H van Dyck, Mark Mintun, Gregory Klein, Smiljana Ristic, Nigel J Cairns, Daniel S Marcus, Chengjie Xiong, David M Holtzman, Marcus E Raichle, John C Morris, Randall J Bateman, and Tammie LS Benzinger. Tau PET in autosomal dominant Alzheimer's disease: relationship with cognition, dementia and other biomarkers. *Brain*. <https://doi.org/10.1093/brain/awz019>
- 2019 Qing Wang, Yong Wang, Jingxia Liu, Courtney L Sutphen, Carlos Cruchaga, Tyler Blazey, Brian A Gordon, Yi Su, **Charlie Chen**, Joshua S Shimony, Beau M Ances, Nigel J Cairns, Anne M Fagan, John C Morris, and Tammie LS Benzinger. Quantification of white matter cellularity and damage in preclinical and early symptomatic Alzheimer's disease. *NeuroImage: Clinical*. <https://doi.org/10.1016/j.nicl.2019.101767>
- 2019 Kaining Zhang, **Charles D Chen**, and Ilya E Monosov. Novelty, salience, and surprise timing are signaled by neurons in the basal forebrain. *Current Biology*. <https://doi.org/10.1016/j.cub.2018.11.012>
- 2018 Michiel Cottaar, Matteo Bastiani, **Charles Chen**, Krikor Dikranian, David Van Essen, Timothy E Behrens, Stamatios N Sotiropoulos, and Saad Jbabdi. A gyral coordinate system predictive of fibre orientations. *NeuroImage*. <https://doi.org/10.1016/j.neuroimage.2018.04.040>
- 2016 Noah M Ledbetter, **Charles D Chen**, and Ilya E Monosov. Multiple mechanisms for processing reward uncertainty in the primate basal forebrain. *Journal of Neuroscience*. <https://doi.org/10.1523/jneurosci.1123-16.2016>

Book chapters

- 2014 David C Van Essen, Saad Jbabdi, Stamatios N Sotiropoulos, **Charles Chen**, Krikor Dikranian, Tim Coalson, John Harwell, Timothy EJ Behrens, and Matthew F Glasser. Mapping connections in humans and non-human primates: aspirations and challenges for diffusion imaging. *Diffusion MRI: From Quantitative Measurement to In vivo Neuroanatomy*. <https://doi.org/10.1016/B978-0-12-396460-1.00016-0>

Conference talks

- 2024 **Charles D Chen**, Erin E Franklin, Yan Li, Nelly Joseph-Mathurin, Aime L Burns, Guoqiao Wang, Tammie LS Benzinger, Randall Bateman, and Richard J Perrin. Autopsy findings versus biomarker outcomes in a clinical trial of anti-A β therapies in dominantly inherited Alzheimer disease. *American Association of Neuropathologists (AANP)*
- 2024 **Charles D Chen**, Erin E Franklin, Yan Li, Nelly Joseph-Mathurin, Aime L Burns, Diana A Hobbs, Austin A McCullough, Stephanie A Schultz, Chengjie Xiong, Guoqiao Wang, Tammie LS Benzinger, Randall Bateman, and Richard J Perrin. Anti-amyloid-beta treatment effects on dominantly inherited Alzheimer disease neuropathology: Preliminary autopsy findings from the DIAN-TU-001 trial of gantenerumab or solanezumab. *Alzheimer's and Parkinson's Diseases Conference (AD/PD)*
- 2021 **Charles D Chen**, Jordan A Lang, Shaney Flores, Suzanne E Schindler, Anne M Fagan, John C Morris, Tammie LS Benzinger, and Maria Rosana Ponisio. Concordance of PET tau visual reads with PET tau quantification and CSF pTau. *Radiological Society of North America (RSNA)*
- 2020 **Charles D Chen**, Timothy R Holden, Brian A Gordon, Erin E Franklin, Richard J Perrin, John C Morris, Randall Bateman, Tammie LS Benzinger, Nigel J Cairns, and for the Dominantly Inherited Alzheimer Network (DIAN). Tauopathy in autosomal dominant and late-onset Alzheimer disease. *Alzheimer's Association International Conference (AAIC)*
- 2013 Stamatios N Sotiropoulos, **Charlie Chen**, Krikor Dikranian, Saad Jbabdi, Timothy EJ Behrens, David C Van Essen, and Matthew F Glasser. Comparison of diffusion MRI predictions and histology in the macaque brain. *International Society for Magnetic Resonance in Medicine (ISMRM)*