Nanoinformatics and Artificial Intelligence Research Team Leader National Nanotechnology Center, Thailand itthi.cha@nanotec.or.th | GitHub | Google Scholar | Youtube Channel

EDUCATION	MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA Doctor of Philosophy in Electrical Engineering and Computer Science • Thesis: Acquisition and Reconstruction Methods for Magnetic Resonance Imaging	June 2016
	Master of Science in Electrical Engineering and Computer Science • Thesis: Model-Based Reconstruction of Magnetic Resonance Spectroscopic Imaging	June 2013
	CARNEGIE MELLON UNIVERSITY, Pittsburgh, PA Bachelor of Science in Electrical and Computer Engineering Double Major in Biomedical Engineering • University Honors	May 2011 May 2011
RESEARCH INTERESTS	Artificial intelligence, machine learning, deep learning, mathematical optimization, signal processing, computer visions, medical imaging, data science	
HONORS	Invention Award, National Research Council of Thailand Excellent Dissertation Award, National Research Council of Thailand Awarded 200,000 THB and invitation to the incubation program of U.REKA Batch 2, Digital Ventures, Thailand The 68th Lindau Nobel Laureate Meeting, Lindau, Germany Scholarship, The Ministry of Science and Technology, Royal Thai Government	2023 2020 2019 June 2018 2006-2016
LEADERSHIP	Research Team Leader, Nanoinformatics and Artificial Intelligence, NANOTEC Treasurer, Thai Student Association at Massachusetts Institute of Technology Co-President, Thai Student Association at Carnegie Mellon University Committee, Thai Student Association at Carnegie Mellon University	2021-Present 2012-2013 2009-2010 2007-2009
SELECTED GRANTS	Program Management Unit for Human Resources & Institutional Development Research and Innovation (PMU-B). A learning platform in computer programming, mathematical modeling and artificial intelligence through the lens of computational neuroscience. (Role: PI, 3.8M THB)	2023-2024
	National Research Council of Thailand (NRCT) . Developing AI-based models to identify MCI subtypes and severity, and to test the effectiveness of transcranial stimulation. (Role: PI, 1.2M THB)	2023-2024
	British Council and PMU-B. Next-generation healthcare in Thailand: developing a Thai-UCL curriculum to cultivate high-performing researcher in medical AI for frontier brain health and neurological disorders. (Role: Investigator, 1.1M THB)	2024
	National Research Council of Thailand (NRCT) . Developing computer-based models to improve diagnostic tools for MCI using an integrative approach that combines quantitative models in computational neuroscience and artificial intelligence. (Role: PI, 0.7M THB)	2022
	National Nanotechnology Center (NANOTEC). Artificial Intelligence Assisted COVID-19 Pneumonia Detection from Chest X-Rays. (Role: PI, 0.3M THB)	2020
	National Nanotechnology Center (NANOTEC). Rice Classification Using Deep Learning. (Role: PI, 0.3M THB)	2018

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JOURNAL PUBLICATIONS

- W. Jaroenram, S. Teerapittayanon, R. Suvannakad, S. Pengpanich, J. Kampeera, N. Arunrut, S. Dangtip, S. Sirithammajak, B. Tondee, P. Khumwan, S. Japakasetr, P. Leaungwutiwong, I. Chatnuntawech*, W. Kiatpathomchai*. Enhancing efficiency in detection of COVID-19 through AI-driven colorimetric isothermal detection with multiplex primers. Diagnostic Microbiology and Infectious Disease, 2024. *corresponding authors.
- P. Sookprao, K. Benjasupawan, T. Phangwiwat, **I. Chatnuntawech**, K. Lertladaluck, A. Gutchess, C. Chunharas, S. Itthipuripat. Conflicting sensory information sharpens the neural representations of early selective visuospatial attention. Journal of Neuroscience, 2024.
- A. Suwannasak, S. Angkurawaranon, P. Sangpin, I. Chatnuntawech, K. Wantanajittikul, U. Yarach. Deep learning-based super-resolution of structural brain MRI at 1.5 T: application to quantitative volume measurement. Magnetic Resonance Materials in Physics, Biology and Medicine, 2024.
- T. Phangwiwat, P. Phunchongharn, Y. Wongsawat, I. Chatnuntawech, S. Wang, C. Chunharas, T. C. Sprague, G. F. Woodman, S. Itthipuripat. Sustained attention operates via dissociable neural mechanisms across different eccentric locations. Scientific Reports, 2024.
- U. Yarach, I. Chatnuntawech, K. Setsompop, A. Suwannasak, S. Angkurawaranon, C. Madla, C. Hanprasertpong, P. Sangpin. Improved reconstruction for highly accelerated propeller diffusion 1.5T clinical MRI. Magnetic Resonance Materials in Physics, Biology and Medicine, 2024.
- R. Raksasat, S. Teerapittayanon, S. Itthipuripat, K. Praditpornsilpa, A. Petchlorlian, T. Chotibut, C. Chunharas*, I. Chatnuntawech*. Attentive Pairwise Interaction Network for AI-assisted Clock Drawing Test Assessment of Early Visuospatial Deficits. Scientific Reports, 2023. *corresponding authors.
- S. Itthipuripat, T. Phangwiwat, P. Punchongharn, Y. Wongsawat, I. Chatnuntawech, S. Wang, T. C. Sprague, C. Chunharas, G. F. Woodman. Sustained attention operates via dissociable neural mechanisms across different eccentric locations. Under revision.
- W. Jaroenram, S. Teerapittayanon, J. Kampeera, R. Suvannakad, S. Senapin, N. Prasertsincharoen, I. Chatnuntawech*, W. Kiatpathomchai*. AI-Driven Colorimetric Nucleic Acid Test for Tilapia Lake Virus: A Large-Scale, Point-of-Care Diagnostic Model for Future Emerging Diseases. Aquaculture, 2023. *corresponding authors.
- J. Cho*, B. Gagoski, T.H. Kim, Q. Tian, R. Frost, **I. Chatnuntawech**, B. Bilgic. Wave-Encoded Model-Based Deep Learning for Highly Accelerated Imaging with Joint Reconstruction. Bioengineering, 2022.
- N. Ruengchaijatuporn†, **I. Chatnuntawech**†, S. Teerapittayanon, S. Sriswasdi, S. Itthipuripat, T. Chotibut*, C. Chunharas*. An Explainable Self-attention Deep Neural Network for Detecting Mild Cognitive Impairment Using Multi-input Digital Drawing Tasks. Alzheimer's Research & Therapy, 2022 †The authors contributed equally to this work. †**co-first authors.** *corresponding authors.
- N. Kumchaiseemak, **I. Chatnuntawech**, S. Teerapittayanon, P. Kotchapansompote, T. Kaewlee, M. Piriyajitakonkij, T. Wilaiprasitporn, and S. Suwajanakorn. Toward Ant-Sized Moving Object Localization Using Deep Learning in FMCW Radar: A Pilot Study. IEEE Transactions on Geoscience and Remote Sensing, 2022.
- S. Kalasung, K. Aiempanakit, **I. Chatnuntawech**, N. Limsuwan, K. Lertborworn, V. Patthanasettakul, M. Horprathum, N. Nuntawong, P. Eiamchai*. Geometrically Optimized Audecorated ZnO Nanorod SERS Substrates for Trace Detection and Classifications of Pentaerythritol Tetranitrate. Sensors and Actuators B: Chemical, 2022.

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- W. Jaroenram, I. Chatnuntawech, J. Kampeera, S. Pengpanich, P. Leaungwutiwong, B. Tondee, S. Sirithammajak, R. Suvannakad, P. Khumwan, S. Dangtip, N. Arunrut, S. Bantuchai, W. Nguitragool, S. Wongwaroran, P. Khanchaitit, J. Sattabongkot, S. Teerapittayanon*, W. Kiatpathomchai*. Onestep colorimetric isothermal detection of COVID-19 with AI-assisted automated result analysis: a platform model for future emerging point-of-care RNA/DNA disease diagnosis. Talanta, 2022.
- D. Polak, **I. Chatnuntawech***, J. Yoon, S. S. Iyer, C. Milovic, J. Lee, P. Bachert, E. Adalsteinsson, K. Setsompop, B. Bilgic. Nonlinear dipole inversion (NDI) enables robust quantitative susceptibility mapping (QSM). NMR in Biomedicine, 2020. *corresponding author.
- B. Bilgic, I. Chatnuntawech*, M. K. Manhard, Q. Tian, C. Liao, S. S. Iyer, S. F. Cauley, S. Y. Huang, J. R. Polimeni, L. L. Wald, K. Setsompop. Highly Accelerated Multishot EPI through Synergistic Machine Learning and Joint Reconstruction. Magnetic Resonance in Medicine, 2019. *corresponding author.
- P. Reokrungruang, I. Chatnuntawech, T. Dharakul, S. Bamrungsap*. A simple paper-based surface enhanced Raman scattering (SERS) platform and magnetic separation for cancer screening. Sensors and Actuators B: Chemical, 2019.
- J. Yoon, E. Gong, **I. Chatnuntawech**, B. Bilgic, J. Lee, W. Jung, J. Ko, H. Jung, K. Setsompop, G. Zaharchuk, E. Y. Kim, J. Pauly, J. Lee*. Quantitative susceptibility mapping using deep neural network: QSMnet. NeuroImage, 2018.
- U. Yarach*, Y. H. Tung, K. Setsompop, M. H. In, I. Chatnuntawech, R. Yakupov, F. Godenschweger, O. Speck. Dynamic 2D self-phase-map Nyquist ghost correction for simultaneous multi-slice echo planar imaging. Magnetic Resonance in Medicine, 2018.
- U. Yarach*, M. H. In, **I. Chatnuntawech**, B. Bilgic, F. Godenschweger, H. Mattern, A. Sciarra, O. Speck. Model-based Iterative Reconstruction for Single-shot EPI at 7T. Magnetic Resonance in Medicine, 2017.
- **I.** Chatnuntawech*, P. McDaniel, S. F. Cauley, B. A. Gagoski, C. Langkammer, A. Martin, P. E. Grant, L. L. Wald, K. Setsompop, E. Adalsteinsson, B. Bilgic. Single-Step Quantitative Susceptibility Mapping with Variational Penalties. NMR in Biomedicine, 2016. *corresponding author.
- I. Chatnuntawech*†, A. Martin†, B. Bilgic, K. Setsompop, E. Adalsteinsson, E. Schiavi. Vectorial Total Generalized Variation for Accelerated Multi-Channel Multi-Contrast MRI. Journal of Magnetic Resonance Imaging. Magnetic Resonance Imaging, 2016. †co-first authors, *corresponding author.
- T. Chang, P. Shi, J.D. Steinmeyer, I. Chatnuntawech, P. Tillberg, K.T. Love, P.M. Eimon, D.G. Anderson, M.F. Yanik*. Organ-Targeted High-Throughput In Vivo Biologics Screen Identifies Materials for RNA Delivery. Integrative Biology, 2014.
- **I.** Chatnuntawech*, B. Gagoski, B. Bilgic, S.F. Cauley, K. Setsompop, E. Adalsteinsson. Accelerated ¹H MRSI Using Randomly Undersampled Spiral-Based k-Space Trajectories. Magnetic Resonance in Medicine, 2014. *corresponding author.
- B. Bilgic*, I. Chatnuntawech, A.P. Fan, K. Setsompop, S.F. Cauley, L.L. Wald, E. Adalsteinsson. Fast Image Reconstruction with L2-Regularization. Journal of Magnetic Resonance Imaging, 2014. B. Bilgic*, I. Chatnuntawech, K. Setsompop, S.F. Cauley, L.L. Wald, E. Adalsteinsson. Fast Diffusion Spectrum Imaging Reconstruction with Trained Dictionaries. IEEE Transactions on Medical Imaging, 2013.

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J. Shum, A. Xu, **I. Chatnuntawech**, and E.A. Finol*. A Framework for the Automatic Generation of Surface Topologies for Abdominal Aortic Aneurysm Models. Annals of Biomedical Engineering, 2010.

CONFERENCE PAPERS

- S. Kalasung, **I. Chatnuntawech**, V. Patthanasettakul, S. Limwichean, K. Lertborworn, M. Horprathum, N. Nuntawong, P. Eiamchai, K. Aiempanakit. Au-decorated ZnO Nanorod Arrays for SERS-active Substrates Towards Trace Detection and Classification of Pentaerythritol Tetranitrate. The 5th International Conference on Smart Materials and Nanotechnology, 2021.
- K. Khowamnuaychok, C. Luangchaisri, **I. Chatnuntawech**, C. Muangphat. Studies on the uniformity and hexagonality of anodic aluminum oxide by image analysis methods. The 3rd Electronic and Green Materials International Conference, 2017.
- **I.** Chatnuntawech, B. Bilgic, A. Martin, K. Setsompop, E. Adalsteinsson. Fast Reconstruction for Accelerated Multi-Slice Multi-Contrast MRI. IEEE International Symposium on Biomedical Imaging: From Nano to Macro, 2015.
- B. Bilgic, I. Chatnuntawech, C. Langkammer, K. Setsompop. Sparse Methods for Quantitative Susceptibility Mapping. Wavelets and Sparsity XVI, SPIE, 2015.

CONFERENCE ABSTRACTS

- N. Ruengchaijatuporn, S. S. Iyer, S. Schauman, Q. Chen, X. Cao, **I. Chatnuntawech**, K. Setsompop. Fast spatiotemporal subspace reconstruction of 3D-MRF with B0 correction and Deep-Learning-Initialized Compressed Sensing. International Society for Magnetic Resonance in Medicine 31st Scientific Meeting, 2023.
- U. Yarach, C. Liao, I. Chatnuntawech, S. Teerapittayanon, S. S. Iyer, T. H. Kim, J. Cho, K. Setsompop. BUDA Circular EPI Reconstruction Using Unrolled Un-Net as Priors. International Society for Magnetic Resonance in Medicine 30th Scientific Meeting, 2022.
- J. Cho, B. Gagoski, T. H. Kim, Q. Tian, R. Frost, **I. Chatnuntawech**, B. Bilgic. Rapid Quantitative Imaging Using Wave-Encoded Model-Based Deep Learning for Joint Reconstruction. International Society for Magnetic Resonance in Medicine 30th Scientific Meeting, 2022.
- J. Cho, Q. Tian, R. Frost, **I. Chatnuntawech**, B. Bilgic. Wave-Encoded Model-Based Deep Learning with Joint Reconstruction and Segmentation. International Society for Magnetic Resonance in Medicine 29th Scientific Meeting, 2021.
- U. Yarach, F. Godenschweger, M. Bernstein, M.H. In, I. Chatnuntawech, K. Setsompop, O. Speck, J. Trzasko. Model-Based Iterative Reconstruction for Short-Axis Propeller EPI at 7T MRI. International Society for Magnetic Resonance in Medicine 29th Scientific Meeting, 2021.
- S. Itthipuripat, T. Phangwiwat, P. Punchongharn, I. Chatnuntawech, C. Chunharas, T. C. Sprague, S. Wang, G. F. Woodman. Attention Operates Differently Across Eccentricities. Society for Neuroscience 50th Annual Meeting, 2021.
- P. Sookprao, P. Wiwatphonthana, K. Lertladaluck, T. Wilaiprasitporn, N. Dilokthanakul, I. Chatnuntawech, C. Chunharas, J. Serences, S. Itthipuripat. Conflict dynamically shapes the focus of visual attention. Society for Neuroscience 50th Annual Meeting, 2021.
- D. Polak, **I. Chatnuntawech**, J. Yoon, S. S. Iyer, K. Setsompop, B. Bilgic. VaNDI: Variational Nonlinear Dipole Inversion enables QSM without free parameters. International Society for Magnetic Resonance in Medicine 27th Scientific Meeting, Montreal, 2019.

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- B. Bilgic, C. Liao, M. K. Manhard, Q. Tian, **I. Chatnuntawech**, S. S. Iyer, S. F. Cauley, T. Feiweier, S. Giri, Y. Hu, S. Y. Huang, J. R. Polimeni, L. L. Wald, K. Setsompop. Robust high-quality multishot EPI with low-rank prior and machine learning. International Society for Magnetic Resonance in Medicine 27th Scientific Meeting, Montreal, 2019.
- B. Bilgic, I. Chatnuntawech, M. K. Manhard, Q. Tian, C. Liao, S. F. Cauley, S. Huang, J. Polimeni, L. L. Wald, K. Setsompop. NEATR-SMS for Highly Accelerated Multi-Shot EPI. ISMRM Workshop on Machine Learning, Part II, Washington, D.C., USA, 2018.
- B. Bilgic, I. Chatnuntawech, S. F. Cauley, M. K. Manhard, L. L. Wald, K. Setsompop. Accelerated Multi-Shot EPI Through Machine Learning & Joint Reconstruction. ISMRM Workshop on Machine Learning, Pacific Grove, CA, USA, 2018.
- B. Bilgic, S. F. Cauley, **I. Chatnuntawech**, M. K. Manhard, F. Wang, M. Haskell, C. Liao, L. L. Wald, K. Setsompop. Combining MR-Physics and Machine Learning to Address Intractable Reconstruction Problems. International Society for Magnetic Resonance in Medicine 26th Scientific Meeting, Paris, 2018.
- B. Bilgic, B. Zhao, **I. Chatnuntawech**, L.L. Wald, K. Setsompop. Calibrationless Parallel Imaging in Multi Echo/Contrast Data. International Society for Magnetic Resonance in Medicine 25th Scientific Meeting, Hawaii, 2017.
- **I.** Chatnuntawech, K. Tantisantisom, T. Boonkoom, K. Jiramitmonkon, P. Khanchaitit. Quantitative Analysis of Aqueous Methanol Solution Using Hyperspectral Imaging. NanoThailand, Thailand, 2016.
- **I.** Chatnuntawech, P. McDaniel, S. F. Cauley, B. A. Gagoski, C. Langkammer, A. Martin, P. E. Grant, L. L. Wald, K. Setsompop, E. Adalsteinsson, B. Bilgic. TGV-Regularized Single-Step Quantitative Susceptibility Mapping. International Society for Magnetic Resonance in Medicine 24th Scientific Meeting, Singapore, 2016.
- A. Martin, I. Chatnuntawech, B. Bilgic, K. Setsompop, E. Adalsteinsson, E. Schiavi. Total Generalized Variation Based Multi-Contrast Magnetic Resonance Image Reconstruction. Proceedings of XXIII CEDYA XIII CMA, p. 135. Cadiz, Spain, 2015.
- **I.** Chatnuntawech, B. Bilgic, A. Martin, K. Setsompop, E. Adalsteinsson. A Fast Reconstruction Algorithm for Accelerated Multi-Contrast MRI. International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Toronto, ON, Canada, 2015.
- A. Martin, I. Chatnuntawech, B. Bilgic, K. Setsompop, E. Adalsteinsson, E. Schiavi. Total Generalized Variation Based Joint Multi-Contrast, Parallel Imaging Reconstruction of Undersampled k-space Data. International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Toronto, ON, Canada, 2015.
- B. Gagoski, H. Ye, S.F. Cauley, H. Bhat, K. Setsompop, I. Chatnuntawech, A. Martin, Y. Jiang, M. Griswold, E. Adalsteinsson, P.E. Grant, L.L. Wald. Magnetic Resonance Fingerprinting for Fetal Imaging at 3T Initial Results. International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Toronto, ON, Canada, 2015.
- K. Setsompop, B. Bilgic, A. Nummenmaa, Q. Fan, S.F. Cauley, S. Huang, **I. Chatnuntawech**, Y. Rathi, T. Witzel, L.L. Wald. Slice Dithered Enhanced Resolution Simultaneous Multislice (SLIDERSMS) for High Resolution (700 um) Diffusion Imaging of the Human Brain. International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Toronto, ON, Canada, 2015.

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- **I. Chatnuntawech**, B. Gagoski, B. Bilgic, K. Setsompop, S.F. Cauley, E. Adalsteinsson. Accelerated MRSI Using Randomly Undersampled Spiral-Based k-Space Trajectories. International Society for Magnetic Resonance in Medicine 22nd Scientific Meeting, Milan, Italy, 2014.
- **I. Chatnuntawech**, B. Bilgic, E. Adalsteinsson. Undersampled Spectroscopic Imaging with Modelbased Reconstruction. International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013.
- **I.** Chatnuntawech, B. Bilgic, B. Gagoski, T. Kok, A.P. Fan, E. Adalsteinsson. Metabolite Map Estimation from Undersampled Spectroscopic Imaging Data Using N-Compartment Model. International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013.
- B. Bilgic, I. Chatnuntawech, K. Setsompop, S.F. Cauley, L.L. Wald, E. Adalsteinsson. Fast DSI Reconstruction with Trained Dictionaries. International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013.
- B. Bilgic, I. Chatnuntawech, A.P. Fan, E. Adalsteinsson. Regularized QSM in Seconds. International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013.
- S.F. Cauley, O.A. Abuhashem, B. Bilgic, I. Chatnuntawech, J. Cohen-Adad, K. Setsompop, L.L. Wald, E. Adalsteinsson. Low-Rank Basis Smoothing for the Denoising of Diffusion Weighted Images. International Society for Magnetic Resonance in Medicine 21st Scientific Meeting, Salt Lake City, Utah, USA, 2013.
- B. Bilgic, I. Chatnuntawech, K. Setsompop, S.F. Cauley, L.L. Wald, E. Adalsteinsson. Fast Regularized Reconstruction Tools for QSM and DSI. ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, AZ, USA, 2013.
- **I. Chatnuntawech**, A. Xu, J. Shum, E.A. Finol. Automatic Surface Mesh Generation, Refinement, and Smoothing of Human Abdominal Aortic Aneurysms. Proceedings of the 2009 Biomedical Engineering Society Annual Fall Meeting, Pittsburgh, PA, USA, 2009.
- A. Xu, I. Chatnuntawech, B. Liao, J. Shum, E.A. Finol. Geometry Quantification of Electively Repaired Abdominal Aortic Aneurysms. Proceedings of the 2009 Biomedical Engineering Society Annual Fall Meeting, Pittsburgh, PA, USA, 2009.

TEACHING EXPERIENCES

BRAIN CODE CAMP (Open to Public) Principal Investigator, Instructor

Aug 2023 – Nov 2024

- Developed a learning platform and prepared the materials
- Led weekly office hours and provided research project guidance

CHIANG MAI UNIVERSITY, Chiang Mai, Thailand Co-Instructor, Medical Imaging and Reconstruction II

Nov 2022 -Mar 2023

2022

• Gave formal lectures and hands-on deep learning exercises

Thailand National Metal and Materials Technology Center (Open to Public) Co-Instructor, Machine Learning Workshop for Material Scientists

- Gave formal lectures, developed courses structure, designed problem sets and quizzes
- Recorded lectures are available on Youtube

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KASETSART UNIVERSITY, Bangkok, Thailand Co-Instructor, Signal Processing in Medical Imaging

Spring 2018

• Gave formal lectures, developed class structure, designed and graded problem sets and exams

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA,

Spring 2016

Head Teaching Assistant, Signals and Systems

- Developed class structure, designed and graded problem sets and exams, and held weekly office hours
- Attained an MIT subject evaluation of 6.7 out of 7.0

Graduate Teaching Assistant, Data Acquisition and Image Reconstruction in MRI

Fall 2014

- Developed class structure, graded exams and problem sets, held weekly office hours, and proctored laboratory sessions
- Attained an MIT subject evaluation of 6.8 out of 7.0

CARNEGIE MELLON UNIVERSITY, Pittsburgh, PA, USA

Fall 2010

Teaching Assistant, Signals and Systems

 Developed class structure, graded exams and problem sets, and proctored biweekly laboratory sessions

THAI SCHOLAR SUMMER PROGRAM, Wolfeboro, NH, USA

Summer 2007

Teaching Assistant, Brewster Academy

 Developed weekly lesson plans, graded problem sets, and held daily office hours

PEER REVIEWS

IEEE Transaction on Medical Imaging, Magnetic Resonance in Medicine, NMR in Biomedicine, International Society for Magnetic Resonance in Medicine.