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EDUCATION

Purdue University

West Lafayette, IN, USA

Aug. 2009–Aug. 2015

- Ph.D. in Electrical and Computer Engineering

 Thesis title: Advances in medical imaging and image reconstruction
 - Thesis advisors: Prof. Thomas M. Talavage and Prof. Ben Adcock

Korea University

B.Eng. in Electrical Engineering

Seoul, South Korea Mar. 2002–Feb. 2009

University of Hong Kong

Exchange Student in Electrical and Electronic Engineering

Hong Kong, China Aug. 2007–May 2008

WORK EXPERIENCE

University of Hawai'i at Mānoa

Assistant Professor in Electrical Engineering (tenure-track)

Honolulu, HI, USA

Aug. 2019–

- Research: Machine learning & AI with big data, optimization, sampling, imaging science
- Teaching: Introduction to Image Processing & Computer Vision (EE416), Computational Image Processing & Computer Vision (EE616)

University of Michigan

Research Fellow in Electrical Engineering and Computer Science Visiting Scholar in Electrical Engineering and Computer Science (supervisor: Prof. Jeffrey Fessler) Ann Arbor, MI, USA May 2016–Jul. 2019

- May 2019–Jul. 2020
- Iterative neural networks: Theory and appl. to extreme imaging
- Block optimization: Theory and appl. to learning convolutional regularizers
- Tensor decomposition and appl. to light-field photography

Purdue University

West Lafayette, IN, USA Aug. 2015–May 2016

Postdoctoral Research Associate in Mathematics (supervisor: Prof. Ben Adcock)

• Compressed sensing and parallel acquisition: Theory

Purdue University

Research Assistant (advisor: Prof. Thomas M. Talavage) Teaching Assistant (advisor: Prof. Michael D. Zoltowski)

• Signals and systems (ECE301)

Research Assistant (advisor: Prof. Michael G. Heinz)

Jan. 2011–May 2011

West Lafayette, IN, USA

Samsung Advanced Institute of Technology

Graduate Intern (supervisor: Dr. Jung-Bae Kim)

• Multi-modal (ultrasonography & MRI) image registration

Aug. 2011–May 2013 Yongin, South Korea

Jun. 2013-Jul. 2013

Aug. 2010-May 2015

Neuroscience Research Institute

Lecturer (supervisor: Prof. Zang-Hee Cho)

Incheon, South Korea May 2013–Jun. 2013

- Teaching: Intro. to optimization
- Research: High-resolution PET image reconstruction

Intel Labs

Hillsboro, OR, USA May 2011–Jul. 2011

Graduate Intern (supervisor: Dr. Willem M. Beltman)

• Blind source separation of convolutive speech mixtures in mobile environment

Gangnam-gu and Yeongdeungpo-gu District Offices

Public Interest Service Personnel

Seoul, South Korea Jun. 2003–Sep. 2005

PUBLICATION

Authorship and contributorship: The asterisks (*) indicate equal contributions. I am the corresponding author of all my first-authored papers; except for some special cases, I let my students/mentees hold the corresponding authorship as the first author. For non-first-authored papers, daggers (†) indicate my (co-)corresponding authorship. The last author position is reserved for the individual who may have given significant intellectual inputs and/or supervised the overall work.

Preprints

Xiyu Zhang, Haowei Xiang, Il Yong Chun, Mert Pilanci, and Jeffrey A. Fessler, "Accelerated convolutional operator learning," preprint, Jun. 2019.

Submitted Journal Papers

Md Yousuf Harun, Thomas T. F. Huang, Joshua Mellinger, Willy Chang, Adrianna Saymo, Brienne Walker, Kristen Hori, M Arifur Rahman, Il Yong Chun^(†), and Aaron T. Ohta^(†), "Improved UNet architecture for human embryo image segmentation," submitted to *IEEE Trans. Med. Imag.*, Aug. 2020.

Dehui Zhang^(*), Zhen Xu^(*), Zhengyu Huang^(*), Audrey Rose Gutierrez, Cameron J. Blocker, Che-Hung Liu, Miao-Bin Lien, Gong Cheng, Zhe Liu, **Il Yong Chun**^(†), Jeffrey A. Fessler^(†), Zhao-hui Zhong^(†), Theodore B. Norris^(†), "3D imaging and tracking with a neural network enabled graphene transparent multi-focal-plane imaging system," submitted to *Nat. Commun.*, Jul. 2020. doi: 10.21203/rs.3.rs-54444/v1.

Xuehang Zheng^(*), Il Yong Chun^(*), Zhipeng Li, Yong Long, and Jeffrey A. Fessler, "Sparse-view X-ray CT reconstruction using ℓ_1 prior with learned transform," submitted to *IEEE Trans. Comput. Imag.*, Feb. 2019. [Online] Available: http://arxiv.org/abs/1711.00905.

Journal Papers

Il Yong Chun, Zhengyu Huang^(*), Hongki Lim^(*), and Jeffrey A. Fessler, "Momentum-Net: Fast and convergent iterative neural network for inverse problems," early access in *IEEE Trans. Pattern Anal. Mach. Intell.*, Jul. 2020. doi: TPAMI.2020.3012955.

Hongki Lim, **Il Yong Chun**, Yuni K. Dewaraja, and Jeffrey A. Fessler, "Improved low-count quantitative PET reconstruction with an iterative neural network," *IEEE Trans. Med. Imag.*, 39(11):3512–3522, Nov. 2020. doi: 10.1109/TMI.2020.2998480.

Miao-Bin Lien, Che-Hung Liu, **Il Yong Chun**, Saiprasad Ravishankar, Hung Nien, Minmin Zhou, Jeffrey A. Fessler, Theodore B. Norris, and Zhaohui Zhong, "Ranging and light field imaging with transparent photodetectors," *Nat. Photonics*, 14(3):143–148, Mar. 2020. doi: 10.1038/s41566-019-0567-3.

- Il Yong Chun and Jeffrey A. Fessler, "Convolutional analysis operator learning: Acceleration and convergence," *IEEE Trans. Image Process.*, 29:2108–2122, 2020. doi: 10.1109/TIP.2019.2937734.
- Il Yong Chun and Ben Adcock, "Uniform recovery from subgaussian multi-sensor measurements," *Appl. Comput. Harmon. Anal.*, 48(2):731–765, Mar. 2020. doi: 10.1016/j.acha.2018.09.003.
- Il Yong Chun^(*), David Hong^(*), Ben Adcock, and Jeffrey A. Fessler, "Convolutional analysis operator learning: Dependence on training data," *IEEE Signal Process. Lett.*, 26(8):1137–1141, Aug. 2019. doi: 10.1109/LSP.2019.2921446.
- Ikbeom Jang, Il Yong Chun, Bari Sumra, Evan L. Breedlove, Brian R. Cummiskey, Taylor A. Lee, Roy J. Lycke, Victoria N. Poole, Trey E. Shenk, Diana O. Svaldi, Gregory G. Tamer, Jr., Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "Every hit matters: White matter integrity changes in high school football athletes are correlated with repetitive head acceleration event exposure," *Neuroimage: Clinical*, 24:101930, Jul. 2019. doi: 10.1016/j.nicl.2019.101930.
- Il Yong Chun and Jeffrey A. Fessler, "Convolutional dictionary learning: Acceleration and convergence," *IEEE Trans. Image Process.*, 27(4):1697–1712, Apr. 2018. doi: 10.1109/TIP.2017.2761545.
- Il Yong Chun and Ben Adcock, "Compressed sensing and parallel acquisition," *IEEE Trans. Inf. Theory*, 63(8):4860–4882, May 2017. doi: 10.1109/TIT.2017.2700440.
- Il Yong Chun, Song Noh, David J. Love, Thomas M. Talavage, Stephen Beckley, and Sherman J. Kisner, "Mean squared error (MSE)-based excitation pattern design for parallel transmit and receive SENSE MRI image reconstruction," *IEEE Trans. Comput. Imag.*, 2(4):424–439, Dec. 2016. doi: 10.1109/TCI.2016.2610141.
- Il Yong Chun, Ben Adcock, and Thomas M. Talavage, "Efficient compressed sensing SENSE pMRI

reconstruction with joint sparsity promotion," $IEEE\ Trans.\ Med.\ Imag.,\ 5(1):354-368,\ Jan.\ 2016.\ doi: 10.1109/TMI.2015.2474383.$

Il Yong Chun, Xianglun Mao, Eric L. Breedlove, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "DTI detection of longitudinal WM abnormalities due to accumulated head impacts," *Dev. Neuropsychol.*, 40(2):92–97, May 2015. doi: 10.1080/87565641.2015.1020945.

Selected-Conference Papers

Il Yong Chun^(*), Xuehang Zheng^(*), Yong Long, and Jeffrey A. Fessler, "BCD-Net for low-dose CT reconstruction: Acceleration, convergence, and generalization," in *Proc. Med. Image Compt. and Computer Assist. Interven. (MICCAI)*, pp. 31–40, Shenzhen, China, Oct. 2019. doi: 10.1007/978-3-030-32226-7_4.

Conference Papers & Abstracts

Siqi Ye, Yong Long, and Il Yong Chun, "Momentum-Net for low-dose CT image reconstruction," accepted to *Asilomar Conf. on Signals, Syst., and Comput.*, Aug. 2020. [Online] Available: http://arxiv.org/abs/2002.12018.

Zhipeng Li, **Il Yong Chun**, and Yong Long, "Image-domain material decomposition using an iterative neural network for dual-energy CT," in *Proc. IEEE Intl. Symp. Biomed. Imag. (ISBI)*, pp. 651–655, Iowa City, IA, Apr. 2020. doi: 10.1109/ISBI45749.2020.9098590.

Zhengyu Huang, Jeffrey A. Fessler, Theodore B. Norris, **Il Yong Chun** "Light-field reconstruction and depth estimation from focal stack images using convolutional neural networks," in *Proc. IEEE Intl. Conf. on Acoust., Speech, and Signal Process. (ICASSP)*, pp. 8648–8652, Barcelona, Spain, May 2020. doi: 10.1109/ICASSP40776.2020.9053586. (**Invited paper**)

Caroline Crockett, David Hong, Il Yong Chun, and Jeffrey A. Fessler, "Incorporating handcrafted filters in convolutional analysis operator learning for ill-posed inverse problems," in *Proc. IEEE Intl. Workshop on Compt. Adv. in Multi-Sensor Adaptive Process. (CAMSAP)*, pp. 316–320, Guadeloupe, West Indies, Dec. 2019. doi: 10.1109/CAMSAP45676.2019.9022669. (Invited paper)

Hongki Lim, **Il Yong Chun**, Jeffrey A. Fessler, and Yuni K. Dewaraja, "Improved low count quantitative SPECT reconstruction with a trained deep learning based regularizer," *J. Nuc. Med. (Abs. Book)*, 60(s1):42, May 2019. [Online] Available: http://jnm.snmjournals.org/content/60/supplement_1/42.short.

Dehui Zhang, Zhen Xu, Zhengyu Huang, Audrey Rose Gutierrez, Il Yong Chun, Cameron J. Blocker, Gong Cheng, Zhe Liu, Jeffrey A. Fessler, Zhaohui Zhong, and Theodore B. Norris, "Graphene-based transparent photodetector array for multiplane imaging," in *Proc. Conf. on Lasers and Electro-Optics (CLEO)*, p. SM4J.2, San Jose, CA, May 2019. doi: 10.1364/CLEO_SI.2019.SM4J.2.

- Il Yong Chun, Hongki Lim^(*), Zhengyu Huang^(*), and Jeffrey A. Fessler, "Fast and convergent iterative signal recovery using trained convolutional neural networks," in *Proc. Annual Allerton Conf. on Commun., Control, and Comput.*, pp. 155–159, Monticello, IL, Oct. 2018. doi: 10.1109/ALLER-TON.2018.8635932. (Invited paper)
- Il Yong Chun and Jeffrey A. Fessler, "Convolutional analysis operator learning: Application to sparse-view CT," in *Proc. Asilomar Conf. on Signals, Syst., and Comput.*, pp. 1631–1635, Pacific Grove, CA, Oct. 2018. doi: 10.1109/ACSSC.2018.8645500. (Invited paper)

Hongki Lim, Jeffrey A. Fessler, Yuni K. Dewaraja, and **Il Yong Chun**, "Application of trained deep BCD-Net to iterative low-count PET image reconstruction," in *Proc. IEEE Nuclear Science Symp. (NSS) and Med. Imag. Conf. (MIC)*, pp. 1–4, Sydney, Australia, Nov., 2018. doi: 10.1109/NSSMIC.2018.8824563.

Il Yong Chun and Jeffrey A. Fessler, "Deep BCD-Net using identical encoding-decoding CNN structures for iterative image recovery," in *Proc. IEEE Image, Video, and Multidim. Signal Process.* (IVMSP) Workshop, pp. 1–5, Zagori, Greece, Apr. 2018. doi: 10.1109/IVMSPW.2018.8448694.

Cameron J. Blocker^(*), **Il Yong Chun**^(*), and Jeffrey A. Fessler, "Low-rank plus sparse tensor models for light-field reconstruction from focal stack data," in *Proc. IEEE Image, Video, and Multidim. Signal Process. (IVMSP) Workshop*, pp. 1–5, Zagori, Greece, Apr. 2018. doi: 10.1109/IVM-

- Saiprasad Ravishankar, Il Yong Chun, and Jeffrey A. Fessler, "Physics-driven deep training of dictionary-based algorithms for MR image reconstruction," in *Proc. Asilomar Conf. on Signals, Syst.*, and Comput., pp. 1859–1863, Pacific Grove, CA, Nov. 2017. doi: 10.1109/ACSSC.2017.8335685. (Invited paper)
- Il Yong Chun and Jeffrey A. Fessler, "Convergent Convolutional Dictionary Learning using Adaptive Contrast Enhancement (CDL-ACE): Application of CDL to image denoising," in *Proc. Sampling Theory and Appl. (SampTA)*, pp. 460–464, Tallinn, Estonia, Jul. 2017. doi: 10.1109/SAMPTA.2017.8 024378.
- Il Yong Chun, Xuehang Zheng, Yong Long, and Jeffrey A. Fessler, "Sparse-view X-ray CT reconstruction using ℓ_1 regularization with learned sparsifying transform," in *Proc. Intl. Mtg. on Fully 3D Image Recon. in Rad. and Nuc. Med. (Fully 3D)*, pp. 115–119, Xi'an, China, Jun. 2017. [Online] Available: http://onlinelibrary.fully3d.org/papers/2017/Fully3D.2017-11-3109002.pdf.
- Ikbeom Jang, Il Yong Chun, Sumra Bari, Yukai Zou, Eric A. Nauman, and Thomas M. Talavage, "DTI reveals persistent effects on white matter in football players with history of sports-related concussion," *IN Neuroimaging Symp.*, Bloomington, IN, Nov. 2016.
- Il Yong Chun and Ben Adcock, "Compressed sensing and parallel acquisition: Optimal uniform and nonuniform recovery guarantees," *Shannon Centennial Symposium*, Ann Arbor, MI, Sep. 2016.
- Il Yong Chun, Chen Li, and Ben Adcock, "Sparsity and parallel acquisition: Optimal uniform and nonuniform recovery guarantees," in *Proc. IEEE Intl. Conf. on Multimedia and Expo Workshop (ICMEW)*, pp. 1–6, Seattle, WA, Jul. 2016. doi: 10.1109/ICMEW.2016.7574710.
- Il Yong Chun and Ben Adcock, "Optimal sparse recovery for multi-sensor measurements," in *Proc. IEEE Inf. Theory Workshop (ITW)*, pp. 270–274, Cambridge, UK, Aug. 2016. doi: 10.1109/IT W.2016.7606838.
- Sumra Bari, Il Yong Chun, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "DTI detection of WM abnormalities using randomization test with complete and incomplete pairs," in *Proc. Org. for Hum. Brain Mapp. (OHBM)*, Honolulu, HI, Jun. 2015.
- Ikbeom Jang, Il Yong Chun, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "DWI detection of WM abnormality and relation with collision events in high school athletes," in *Proc. Org. for Hum. Brain Mapp. (OHBM)*, Honolulu, HI, Jun. 2015.
- Ikbeom Jang, Il Yong Chun, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "Robust detection of axonal abnormalities in high school collision-sport athletes: Longitudinal single subject analysis," in *Proc. Intl. Soc. Mag. Res. Med. (ISMRM)*, Toronto, ON, May 2015.
- Il Yong Chun, Ben Adcock, and Thomas M. Talavage, "Efficient compressed sensing SENSE parallel MRI reconstruction with joint sparsity promotion and mutual incoherence enhancement," in *Proc. IEEE Eng. Med. Biol. Conf. (EMBC)*, pp. 2424–2427, Chicago, IL, Aug. 2014. doi: 10.1109/EMBC.2014.6944111.
- Il Yong Chun, Ben Adcock, and Thomas M. Talavage, "Non-convex compressed sensing CT reconstruction based on tensor discrete Fourier slice theorem," in *Proc. IEEE Eng. Med. Biol. Conf. (EMBC)*, pp. 5141–5144, Chicago, IL, Aug. 2014. doi: 10.1109/EMBC.2014.6944111.
- Il Yong Chun, Allan Diaz, Sijia Qiu, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "DTI detection of symptomatic and asymptomatic injury due to repetitive hit exposures," *IN Neuroimaging Symp.*, Bloomington, IN, Oct. 2013.
- Il Yong Chun and Thomas M. Talavage, "Efficient compressed sensing statistical X-ray/CT reconstruction from fewer measurements," in *Proc. Intl. Mtg. on Fully 3D Image Recon. in Rad. and Nuc. Med. (Fully 3D)*, pp. 30–33, Lake Tahoe, CA, Jun. 2013.
- Il Yong Chun, Allan Diaz, Xiaodong Li, Yun Jang Jin, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "DTI detection of symptomatic and asymptomatic injury due to repetitive head blows," in *Proc. Org. for Hum. Brain Mapp. (OHBM)*, Seattle, WA, Jun. 2013.
- Il Yong Chun and Thomas M. Talavage, "Fast non-convex statistical compressed sensing MRI

reconstruction based on approximated Lp(0 -quasi-norm with fewer measurements than using L1-norm," in*Proc. Intl. Soc. Mag. Res. Med. (ISMRM)*, Salt Lake City, UT, Apr. 2013.

Il Yong Chun and Thomas M. Talavage, "Edge-preserving non-iterative MAP SENSE MRI reconstruction," in *Proc. Intl. Soc. Mag. Res. Med. (ISMRM)*, Salt Lake City, UT, Apr. 2013.

Il Yong Chun and Thomas M. Talavage, "Sparse Tikhonov-regularized SENSE MRI reconstruction," in *Proc. Intl. Soc. Mag. Res. Med. (ISMRM)*, Salt Lake City, UT, Apr. 2013.

Il Yong Chun, Allan Diaz, Yun Jang Jin, Xiaodong Li, Larry J. Leverenz, Eric A. Nauman, and Thomas M. Talavage, "Robust detection of progressive white matter abnormalities in mTBI using DW-MRI," in *Proc. Intl. Soc. Mag. Res. Med. (ISMRM)*, Salt Lake City, UT, Apr. 2013.

TALKS Conference Presentations

"Momentum-Net for low-dose CT image reconstruction," Asilomar Conf. on Signals, Syst., and Comput., Nov. 2020.

"Light-field reconstruction and depth estimation from focal stack images using convolutional neural networks"

Lecture session on Learning based inversion

IEEE Intl. Conf. on Acoust., Speech, and Signal Process. (ICASSP) (Invited lecture) May 2020

"Incorporating handcrafted filters in convolutional analysis operator learning for ill-posed inverse problems"

Special session on Computational biomedical imaging

IEEE Intl. Workshop on Comput. Adv. in Multi-Sensor Adaptive Process. (CAMSAP) (Invited poster)

Dec. 2019

"Application of trained Deep BCD-Net to iterative low-count PET image reconstruction"

IEEE Nuclear Science Symp. (NSS) and Med. Imag. Conf. (MIC)

Nov. 2018

"Signal recovery using trained CNNs: Relation to compressed sensing and application to sparse-view CT"

Special session on Machine learning advances in medical imaging Asilomar Conf. on Signals, Syst., and Comput. (Invited talk)

Oct. 2018

"Convergent iterative signal recovery using trained convolutional neural networks"

Special session on Computational imaging and inverse problems

Annual Allerton Conf. on Commun., Control, and Comput. (Invited talk)

Oct. 2018

"From convolutional analysis operator learning (CAOL) to convolutional neural network (CNN)"

Minisymposium on Recent advances in convolutional sparse representations

SIAM Conf. on Imaging Science (IS) (Invited talk)

Jun. 2018

"Deep BCD-Net using identical encoding-decoding CNN structures for iterative image recovery" IEEE Image, Video, and Multidim. Signal Process. (IVMSP) Workshop Jun. 2018

"Low-rank plus sparse tensor models for light-field reconstruction from focal stack data" *IEEE Image, Video, and Multidim. Signal Process. (IVMSP) Workshop* Jun. 2018.

"Physics-driven deep training of dictionary-based algorithms for image reconstruction"

Asilomar Conf. on Signals, Syst., and Comput. (Invited talk)

Nov. 2017

"Convergent convolutional dictionary learning using adaptive contrast enhancement (CDL-ACE): Application of CDL to image denoising"

Intl. Conf. on Sampling Theory and Appl. (SampTA)

Jul. 2017

"Efficient sparse-view X-ray CT reconstruction using ℓ_1 regularization with learned sparsifying transform"

Intl. Mtg. on Fully 3D Image Recon. in Rad. and Nuc. Med. (Fully 3D)

Jun. 2017

"DTI reveals persistent effects on white matter in football players with history of sports-related concussion"

IN Neuroimaging Symp.

Nov. 2016

"Optimal sparse recovery for multi-sensor measurements" $IEEE\ Inf.\ Theory\ Workshop\ (ITW)$	Aug. 2016
"Sparsity and parallel acquisition: Optimal uniform and nonuniform recovery guara Workshop on Sparsity and Compressive Sensing in Multimedia (MM-SPARSE) IEEE Intl. Conf. on Multimedia and Expo (ICME)	ntees" Jul. 2016
"Robust detection of axonal abnormalities in high school collision-sport athletes: longitudinal single	
subject analysis" Intl. Soc. Mag. Res. Med. (ISMRM) (E-poster)	May 2015
"Non-convex compressed sensing CT reconstruction based on tensor discrete Fourier IEEE Eng. Med. Biol. Conf. (EMBC)	r slice theorem" Aug. 2014
"Efficient compressed sensing statistical X-ray/CT reconstruction from fewer measu Intl. Mtg. on Fully 3D Image Recon. in Rad. and Nuc. Med. (Fully 3D)	rements" Jun. 2013
"Robust detection of progressive white matter abnormalities in mTBI using DW-MI Intl. Soc. Mag. Res. Med. (ISMRM) (E-poster)	RI" Apr. 2013
Seminar Presentations	
"Machine learning & AI for imaging and potential application to EM imaging" Industry Advisory Board meeting, NSF Industry Univ. Cooperative Research Center	Nov. 2019
"ML & AI for breaking imaging limits" ECE seminar, Michigan State University (ECE)	Mar. 2019
"ML & AI for breaking imaging limits" EE seminar, the University of Hawai'i, Mānoa (EE)	Mar. 2019
"Breaking imaging limits via ML & AI" Seminar, Shanghai Jiao Tong University (UM-SJTU JI)	Sep. 2018
"Breaking imaging limits via ML & AI" $Special\ seminar,$ Ulsan National Institute of Science and Technology (ECE)	Sep. 2018
"Breaking imaging limits via ML & AI" Seminar, Yonsei University (CSE)	Aug. 2018
"Breaking imaging limits" Colloquium, Ohio State University (ECE)	Mar. 2018
"Breaking imaging limits" Seminar, Texas Tech University (ECE)	Feb. 2018
"Convolutional dictionary learning using a fast block proximal gradient method" Communications & Signal Processing seminars, the University of Michigan (EECS)	Apr. 2017
"Compressed sensing and parallel acquisition" Communications & Signal Processing seminars, the University of Michigan (EECS)	Jan. 2016
Travel Funds for Purdue Engineering Ph.D. Candidates, Purdue Univ.	Sep. 2014
Travel Funds, 12 th Fully 3D	Jun. 2013
Magna Cum Laude Merit Award, 21 st ISMRM	Apr. 2013
Award of Trainee (Educational) Stipend, 21^{st} ISMRM	Apr. 2013
Semester High Honor, Korea Univ. Dec.	2005–Jun. 2007
Honors Scholarship, Korea Univ. Feb.	2006–Aug. 2007

$\frac{\textbf{PROFESSIONAL}}{\textbf{EXPERIENCE}} \; \frac{\textbf{Reviewer for the following journals:}}{\textbf{EXPERIENCE}}$

HONORS AND AWARDS

- IEEE Transactions on Image/Signal Processing
- IEEE Transactions on Medical Imaging

- IEEE Transactions on Computational Imaging
- IEEE Transactions on Cybernetics
- IEEE Signal Processing Letters
- SIAM Journal on Imaging Sciences
- Medical Image Analysis

Reviewer for the following proceedings:

• IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018–20

Session chair for the following conferences:

• Session: Image Recovery in Computational Imaging Asilomar Conf. on Signals, Syst., and Comput.

Nov. 2020

Membership:

- Member in IEEE
- Affiliated member in IEEE special interest group on computational imaging

ACTIVITIES Graduate Committee, EE Department

University of Hawai'i, Mānoa

Member

Aug. 2019–

Purdue Electrical Engineering Korean Association (PEEKA) Vice President

Purdue Univ. Aug. 2011–Aug. 2012

Academic Society of Communication Engineering

Korea Univ.

President

Mar. 2006–Jun. 2007

VISA STATUS H1-B

MILITARY

Republic of Korea Army

South Korea

SERVICE Private

Jun. 2003 – Sep. 2005

PROGRAM SKILL MATLAB, Python, C, and C++