David E. Thompson

2203E Ingram Hall
San Marcos, TX
dthompson@txstate.edu

EDUCATION

PhD, Biomedical Engineering, University of Michigan	*August 2012*
MSE, Electrical Engineering: Systems, University of Michigan	*April 2011*
MS, Biomedical Engineering, University of Michigan	*April 2009*
BS, Electrical Engineering, Biomed focus, Kansas State University	*May 2006*
AA/AS, Allen Community College	*May 2001*

RESEARCH INTERESTS

- Brain-Computer Interface
- Embedded Systems
- Aerospace Applications
- Defense Support
- Non-Invasive Sensing
- Engineering Education

PROFESSIONAL EXPERIENCE

Associate Professor, *ISoE - Electrical Engineering*, Texas State University	*2025–*
Director, *CNAP COBRE Center*, Kansas State University	*2023–2025*
Associate Professor, *Electrical and Computer Engineering*, K-State	*2021–2025*
Assistant Professor, *Electrical and Computer Engineering*, K-State	*2014–2021*
Post-Doctoral Fellow, *Chestek Lab*, University of Michigan	*2012–2013*
Grad. Research Assistant, *Kipke and Huggins Labs*, University of Michigan	*2007–2012*
Foreign Guest Researcher, *Tadokoro Lab*, Tohoku Daigaku (Sendai, Japan)	*2006–2007*
Undergraduate Research Assistant, *Warren and Bolton Labs*, K-State	*2004–2006*
Student Intern III, *Honeywell FM&T*	*2003–2004*

AWARDS AND HONORS

Mark and Brenda Brown Professor of Electrical and Computer Engineering	2021
Air Force Summer Faculty Fellowship	2017
Kansas State Mentoring Fellowship	2015
Allen Community College Distinguish Alumnus and Graduation Speaker	2015
NSF Graduate Research Fellowship	2008
Full Fellowship (Department of Biomedical Engineering, Univ. of Michigan)	2007
Fulbright Fellow to Japan	2006
Barry M. Goldwater Scholarship	2005

MANAGEMENT / ADMIN EXPERIENCE

- From 2023 until 2025 (and of record until Feb 2026), I directed the CNAP COBRE Center.
    - CNAP is a 2M+/year grant from NIH involving oversight, training, and coordination of >10 faculty, >20 graduate students, and three FT staff.
    - CNAP has a presence in four colleges (A&S, VetMed, HHS, and Engg) and many departments. The research is intensely interdisciplinary.

- As director, my HR interactions included: two successful directed hires, job postings, a successful PER-26s, and annual performance evaluations.

- In addition to CNAP, I have collaborated with faculty in Civil Engineering, Architecture, Kinesiology, Psychological Sciences, and Family Studies.
- I have worked with >70 undergraduate researchers from a range of backgrounds, including many female, minority, and first-generation students.
- I mentored multiple Bridges, Developing Scholars, and WiE students, and received a MEP mentoring award in 2023 in addition to being nominated for the UDF Undergraduate Mentoring Award.

TEACHING EXPERIENCE

Courses Taught (KSU)	**Times Offered**
ECE 431 – Intro to Microcontrollers	6
ECE 511 – Circuit Theory II	2
ECE 540 – Applied Scientific Computing	10+
ECE 690/890 – Topics: Brain Computer Interfaces	4
Courses Taught (TXST)	**Times Offered**
EE 5320 – Advanced Computer Architecture	1
EE 2320 – Digital Logic	1
EE 3370 – Signals and Systems	1

FUNDING AS PI

BobCatalyst HealthTech Ignition Grant, Texas State University, 29k, 2026.

National Institutes of Health, "Cognitive and Neurobiological Approaches to Plasticity (CNAP) Center Phase 2" 11M, 2023-25/26.

DoE / Sandia National Labs. "MACH-TB Full Scale." 100k, 2024-25.

DoE / Sandia National Labs. "MACH-TB Sub Scale" 100k, 2024-25.

DoE / Sandia National Labs. "Hypersonic Glide" 100k, 2024-25.

DoE / Sandia National Labs. Multiple Projects up to 586k/year, totaling ~1.5M. 2016-'25

National Science Foundation, "CHS: Small: Enhancing EEG-based Emotion Estimation with Transfer Learning, Priming, and Virtual Reality" 500k, 2019.

PROFESSIONAL MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE), IEEE: Engineers in Medicine and Biology Society (IEEE: EMBS), IEEE: Computing Society, IEEE: Robotics and Automation Society, Brain-Computer Interface Society (BCI Society) – Founding Member.

PUBLICATIONS (Up-to-Date list at Google Scholar)

Peer-Reviewed Publications (First, Co-First, or Senior Author)

Khan, Nazmun, Taylor Sweet, Chase A. Harvey, Seth Warschausky, Jane E. Huggins, and **David E. Thompson**. "P300-Based Brain-Computer Interface Speller Performance Estimation with Classifier-Based Latency Estimation." *Journal of Visualized Experiments* (2023) https://dx.doi.org/10.3791/64959.

Suliman, Ahmad, Md Rakibul Mowla, Alaleh Alivar, Charles Carlson, Punit Prakash, Balasubramaniam Natarajan, Steve Warren, and **David E. Thompson**. "Effects of Ballistocardiogram Peak Detection Jitters on the Quality of Heart Rate Variability

Features: A Simulation-Based Case Study in the Context of Sleep Staging." *Sensors* 23, no. 5 (January 2023): 2693. https://doi.org/10.3390/s23052693.

Carlson, Charles, Vanessa-Rose Turpin, Ahmad Suliman, Carl Ade, Steve Warren, and **David E. Thompson**. "Bed-Based Ballistocardiography: Dataset and Ability to Track Cardiovascular Parameters." *Sensors* 21, no. 1 (January 2021): 156. https://doi.org/10.3390/s21010156.

Mowla, Md Rakibul, Jesus D. Gonzalez-Morales, Jacob Rico-Martinez, Daniel A. Ulichnie, and **David E. Thompson**. "A Comparison of Classification Techniques to Predict Brain-Computer Interfaces Accuracy Using Classifier-Based Latency Estimation." *Brain Sciences* 10, no. 10 (October 14, 2020). https://doi.org/10.3390/brainsci10100734.

Mowla, Md Rakibul, Rachael I. Cano, Katie J. Dhuyvetter, and **David E. Thompson**. "Affective Brain-Computer Interfaces: Choosing a Meaningful Performance Measuring Metric." *Computers in Biology and Medicine* 126 (November 1, 2020): 104001. https://doi.org/10.1016/j.compbiomed.2020.104001.

Thompson, David E., Md Rakibul Mowla, Katie J. Dhuyvetter, Joseph W. Tillman, and Jane E. Huggins. "Automated Artifact Rejection Algorithms Harm P3 Speller Brain-Computer Interface Performance." *Brain-Computer Interfaces* 6, no. 4 (October 2, 2019): 141–48. doi.org/10.1080/2326263X.2020.1734401.

Suliman, Ahmad, Charles Carlson, Carl J. Ade, Steve Warren, and **David E. Thompson**. "Performance Comparison for Ballistocardiogram Peak Detection Methods." *IEEE Access* 7 (2019): 53945–55. doi.org/10.1109/ACCESS.2019.2912650.

Mowla, Md Rakibul, Jane E. Huggins, and **David E. Thompson**. "Enhancing P300-BCI Performance Using Latency Estimation." *Brain-Computer Interfaces* 4, no. 3 (July 3, 2017): 137–45. doi.org/10.1080/2326263X.2017.1338010.

Irwin, Zachary*, **David E. Thompson***, Karen Schroeder, Derek Tat, Ali Hassani, Autumn Bullard, Shoshana Woo, et al. "Enabling Low-Power, Multi-Modal Neural Interfaces through a Common, Low-Bandwidth Feature Space." *IEEE Transactions on Neural Systems and Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society*, November 20, 2015. doi:10.1109/TNSRE.2015.2501752.

Thompson, David E., Lucia R. Quitadamo, Luca Mainardi, Khalil ur Rehman Laghari, Shangkai Gao, Pieter-Jan Kindermans, John D. Simeral, et al. "Performance Measurement for Brain–computer or Brain–machine Interfaces: A Tutorial." *Journal of Neural Engineering* 11, no. 3 (June 1, 2014): 035001. doi:10.1088/1741-2560/11/3/035001.

Thompson, David E.*, Stefanie Blain-Moraes*, and Jane E. Huggins. "Performance Assessment in Brain-Computer Interface-Based Augmentative and Alternative Communication." *BioMedical Engineering OnLine* 12, no. 1 (May 16, 2013): 43. doi:10.1186/1475-925X-12-43.

Thompson, David E., Kirsten L. Gruis, and Jane E. Huggins. "A Plug-and-Play Brain-Computer Interface to Operate Commercial Assistive Technology." *Disability and Rehabilitation: Assistive Technology* 9, no. 2 (April 16, 2013): 144–50. doi:10.3109/17483107.2013.785036.

Thompson, David E., Seth Warschausky, and Jane E. Huggins. "Classifier-Based Latency Estimation: A Novel Way to Estimate and Predict BCI Accuracy." *Journal of Neural Engineering* 10, no. 1 (February 1, 2013): 016006. doi:10.1088/1741-2560/10/1/016006.

Thompson, David E., and Jane E. Huggins. "A Multi-Purpose Brain-Computer Interface Output Device." *Clinical EEG and Neuroscience* 42, no. 4 (October 1, 2011): 230–35. doi:10.1177/155005941104200408.

Peer-Reviewed Publications (middle authorship)

Cernera, Stephanie L, Tan Gemicioglu, Julia Berezutskaya, Richard Csaky, Maxime Verwoert, Daniel Polyakov, Sotirios Papadopoulos, **et al.** "Master Classes of the Tenth International Brain-Computer Interface Meeting: Showcasing the Research of BCI Trainees." *Journal of Neural Engineering*, 2025. https://doi.org/10.1088/1741-2552/adb335.

Ma, Guoxuan, Jian Kang, **David E. Thompson**, and Jane E. Huggins. "BCI-Utility Metric for Asynchronous P300 Brain-Computer Interface Systems." *IEEE Transactions on Neural Systems and Rehabilitation Engineering* 31 (2023): 3968–77. https://doi.org/10.1109/TNSRE.2023.3322125.

Baptist, Joyce, **David E. Thompson**, Chelsea Spencer, Md. Rakibul Mowla, Heather A. Love, and Yile Su. "Clinical Efficacy of EMDR in Unipolar Depression: Changes in Theta Cordance." *Psychiatry Research* 296 (February 1, 2021): 113696. https://doi.org/10.1016/j.psychres.2020.113696.

Alivar, Alaleh, Charles Carlson, Ahmad Suliman, Steve Warren, Punit Prakash, **David E. Thompson**, and Balasubramaniam Natarajan. "Smart Bed Based Daytime Behavior Prediction in Children with Autism Spectrum Disorder - A Pilot Study." *Medical Engineering & Physics* 83 (September 1, 2020): 15–25. https://doi.org/10.1016/j.medengphy.2020.07.004.

Lotte, Fabien, Camille Jeunet, Ricardo Chavarriaga, Laurent Bougrain, **David E. Thompson**, Reinhold Scherer, Md Rakibul Mowla, et al. "Turning Negative into Positives! Exploiting 'Negative' Results in Brain–Machine Interface (BMI) Research." *Brain-Computer Interfaces* 6, no. 4 (October 2, 2019): 178–89. https://doi.org/10.1080/2326263X.2019.1697143.

Alivar, A., C. Carlson, A. Suliman, S. Warren, P. Prakash, **D. E. Thompson**, and B. Natarajan. "Motion Artifact Detection and Reduction in Bed-Based Ballistocardiogram." *IEEE Access* 7 (2019): 13693–703. https://doi.org/10.1109/ACCESS.2019.2894115.

Schroeder, Karen E., Zachary Irwin, Autumn Bullard, **David E. Thompson**, Nicole Bentley, William Stacey, Parag Patil, and Cynthia Chestek. "Robust tactile sensory responses in finger area of primate motor cortex relevant to prosthetic control." *Journal of Neural Engineering* (2017). doi: 10.1088/1741-2552/aa7329.

Alivar, Alaleh, Charles Carlson, Ahmad Suliman, Steve Warren, Punit Prakash, **David E. Thompson**, and Bala Natarajan. "Motion Artifact Detection and Reduction in Bed-Based Ballistocardiogram." *IEEE Access* (2019): 13693–703. https://doi.org/10.1109/ACCESS.2019.2894115.

Irwin, Zachary T., Karen E. Schroeder, P. P. Vu, Autumn J. Bullard, Derek M. Tat, C. S. Nu, A. Vaskov, S. R. Nason, **David E. Thompson**, J. Nicole Bentley, Parag G. Patil, Cynthia A. Chestek. "Neural Control of Finger Movement via Intracortical Brain–machine Interface." *Journal of Neural Engineering* 14, no. 6 (2017): 066004.

Malaga, Karlo A., Karen E. Schroeder, Paras R. Patel, Zachary T. Irwin, **David E. Thompson**, J. Nicole Bentley, Scott F. Lempka, Cynthia A. Chestek, and Parag G. Patil. "Data-Driven Model Comparing the Effects of Glial Scarring and Interface Interactions on Chronic Neural Recordings in Non-Human Primates." *Journal of Neural Engineering* 13, no. 1 (2016): 016010. doi:10.1088/1741-2560/13/1/016010.

Christie, Breanne P., Derek M. Tat, Zachary T. Irwin, Vikash Gilja, Paul Nuyujukian, Justin D. Foster, Stephen I. Ryu, Krishna V. Shenoy, **David E. Thompson**, and Cynthia A. Chestek. "Comparison of Spike Sorting and Thresholding of Voltage Waveforms for Intracortical Brain-Machine Interface Performance." *Journal of Neural Engineering* 12, no. 1 (February 2015): 016009. doi:10.1088/1741-2560/12/1/016009.

Huggins, Jane E., Christoph Guger, Brendan Allison, 15 others, **David E. Thompson**. "Workshops of the Fifth International Brain-Computer Interface Meeting: Defining the Future." *Brain-Computer Interfaces* 1, no. 1 (2014): 27–49. doi:10.1080/2326263X.2013.876724.

McCann, Michael T., **David E. Thompson**, Zeeshan H. Syed, and Jane E. Huggins. “Electrode Subset Selection Methods for an EEG-Based P300 Brain-Computer Interface.” *Disability and Rehabilitation: Assistive Technology*, February 10, 2014, 1–5. doi:10.3109/17483107.2014.884174.

Mak, J N, Y Arbel, J W Minett, L M McCane, B Yuksel, D Ryan, **D Thompson**, L Bianchi, and D Erdogmus. “Optimizing the P300-Based Brain-Computer Interface: Current Status, Limitations and Future Directions.” *Journal of Neural Engineering* 8, no. 2 (April 2011): 025003. doi:10.1088/1741-2560/8/2/025003.

Purcell, Erin K., **David E. Thompson**, Kip A. Ludwig, and Daryl R. Kipke. “Flavopiridol Reduces the Impedance of Neural Prostheses in Vivo without Affecting Recording Quality.” *Journal of Neuroscience Methods* 183, no. 2 (October 15, 2009): 149–57. doi:10.1016/j.jneumeth.2009.06.026.

Peer-Reviewed Conference Proceedings

Knapp, Calder, **David E. Thompson**, and Charles Carlson. “Bed-Based Ballistocardiography: Investigating System Effects & Mitigation Techniques.” American Society of Mechanical Engineers Digital Collection, 2024. https://doi.org/10.1115/DMD2024-1080.

Harvey, Chase, David Chan, Taylor Sweet, Jane E Huggins, and **David E Thompson**. “Do Automatic Artifact Removal Algorithms Reduce Accuracy By Removing Dependence on Post-Stimulus Blinks.” In *BCI Society Meeting 2023*. BCI Society Meeting 2023, 2023.

Sweet, Taylor, Nazmun N. Khan, Chase Harvey, Seth Warschausky, Jane E. Huggins, **David E. Thompson**. “Predicting Performance of a P300 Speller Using Classifier-Based Latency Estimation.” *BCI Society Meeting 2023*, p189.

Khan, Nazmun and **David E. Thompson**. “Cross-Task Transfer Learning in Emotion Estimating BCI.” *BCI Society Meeting 2023,* p206.

Khan, Nazmun, Tegan Brandt, and **David E. Thompson**. “A comparison between different emotion elicitation stimuli in human emotion recognition using EEG signals.” In *Society for Neuroscience (SfN) 2022*.

Sweet, Taylor and **David E. Thompson**. “Applying Big Transfer-based classifiers to the DEAP dataset.” In *44th Annual International Conference of the IEEE EMBS (EMBC)*, 2022, p406-409.

Brandt, Tegan, Taylor Sweet, and **David E. Thompson**. “BCI Accuracy Using Clasifier-Based Latency Estimation and the Optimal Interstimulus Interval.” In *44th Annual International Conference of the IEEE EMBS (EMBC)*, 2022, p4097-4100.

Schmitz, Cecilia, Taylor Sweet, and **David E. Thompson**. “The Effects of Word Priming on Emotion Classification from Neurological Signals.” In *44th Annual International Conference of the IEEE EMBS (EMBC)*, 2022, p410-413.

Sweet, Taylor, Cecilia Schmitz, Tegan Brandt and **David E. Thompson**. “Mechanisms of decreased performance from automated artifact rejection algorithms in P3 speller brain-computer interfaces.” In *Society for Neuroscience (SfN) 2021*.

Mesias, Alexandra, Md Rakibul Mowla, **David E. Thompson**, and Bob Condia. “Expert vs. GSR Assessment of Architecture Students’ Design Task.” In *Proceedings of ANFA 2020*. La Jolla, CA, 2020.

Alivar, A., C. Carlson, A. Suliman, S. Warren, P. Prakash, **D. E. Thompson**, and B. Natarajan. “A Pilot Study on Predicting Daytime Behavior Sleep Quality in Children With ASD.” In *2019 IEEE Signal Processing in Medicine and Biology Symposium (SPMB)*, 1–5, 2019. https://doi.org/10.1109/SPMB47826.2019.9037858.

Brucker, Meagan K, Nichol Castro, Jonathan S Brumberg, and **David E. Thompson**. “EEG Correlates of the Verbal Transformation Effect.” In *Society for Neuroscience 2019*, 339.22. Chicago, IL, 2019.

Thompson, David E., Rachael Cano, Katie Dhuyvetter, and Md. Rakibul Mowla. "Mixed results with affective classification of frontal alpha asymmetry and Hjorth parameters." *BCI Meeting 2018*. Asilomar, CA, 2018.

Mowla, Md. Rakibul, Jane E. Huggins, Bala Natarajahan, and **David E. Thompson**. "Estimating P300 latency and amplitude using LMS adaptive filtering." *BCI Meeting 2018*. Asilomar, CA, 2018.

Dhuyvetter, Katie J., Jane E. Huggins, and **David E. Thompson**. "Nine automatic artifact rejection algorithms all decrease P3 speller accuracy." *BCI Meeting 2018*. Asilomar, CA, 2018.

Alivar, Alaleh, Charles Carlson, Ahmad Suliman, Steven Warren, Punit Prakash, **David E. Thompson**, and Bala Natarajan. "Motion Detection in Bed-Based Ballistocardiogram to Quantify Sleep Quality." *GLOBECOM 2017 - IEEE Global Communications Conference*, 1–6, 2017. https://doi.org/10.1109/GLOCOM.2017.8255014.ing

Carlson, Charles, Ahmad Suliman, Alaleh Alivar, Punit Prakash, **David E. Thompson**, Bala Natarajan, and Steven Warren. "A Pilot Study of an Unobtrusive Bed-Based Sleep Quality Monitor for Severely Disabled Autistic Children." *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 2018. https://doi.org/10.1109/EMBC.2018.8513256.

Suliman, Ahmad, Charles Carlson, Steven Warren, and **David E. Thompson**. "Performance Evaluation of Processing Methods for Ballistocardiogram Peak Detection." *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 2018. https://doi.org/10.1109/EMBC.2018.8512317.

Mowla, Md Rakibul, Jane E. Huggins, Bala Natarajan, and **David E. Thompson**. "P300 Latency Estimation Using Least Mean Squares Filter." *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 2018. https://doi.org/10.1109/EMBC.2018.8512644.

Suliman, Ahmad, Charles Carlson, Punit Prakash, Steve Warren, and **David Thompson**. "Selecting Load Cells for Ballistocardiogram Detection," *38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Disney's Contemporary Resort, Orlando, FL, USA, August 16-20, 2016.

Carlson, Charles, Ahmad Suliman, Punit Prakash, **David Thompson**, Shangxian Wang, Bala Natarajan, and Steve Warren. "Bed-Based Instrumentation for Unobtrusive Sleep Quality Assessment in Severely Disabled Autistic Children," *38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Disney's Contemporary Resort, Orlando, FL, USA, August 16-20, 2016, pp. 4909–4912.

Warren, Steve, Punit Prakash, **David Thompson**, Bala Natarajan, Charles Carlson, Kim Fowler, Ed Brokesh, Jack Xin, Wayne Piersel, Janine Kesterson, and Steve Stoffregen. "Design Projects Motivated and Informed by the Needs of Severely Disabled Autistic Children," *38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Disney's Contemporary Resort, Orlando, FL, USA, August 16-20, 2016, pp. 3015–3018.

Mowla, Md. Rakibul, Jane E. Huggins, and **David E. Thompson**. "Boosting BCI accuracy using wavelet enhanced CBLE scores as a classifier feature." *BCI Meeting 2016.* Asilomar, CA, 2016.

Tillman, Joseph, Jane E. Huggins, and **David E. Thompson**. "Blink Artifact Rejection Algorithms May Interfere with P3 Speller BCI Accuracy." *BCI Meeting 2016.* Asilomar, CA, 2016.

Huggins, Jane E. and **David E. Thompson**. "P300 Latency Jitter More Likely for People with ALS." *BCI Meeting 2016.* Asilomar, CA, 2016.

Irwin, Zachary T., Karen E. Schroeder, **David E. Thompson**, Shoshana L. Woo, Nicholas B. Langhals, Melanie G. Urbanchek, Paul S. Cederna, and Cynthia A. Chestek. "Extracting Neuroprosthetic Control Signals from a Regenerative Peripheral Nerve Interface in a Rhesus Macaque." In *Neuromodulation*, 17:e92, 2014.

Malaga, Karlo A., Karen E. Schroeder, Paras R. Patel, Zachary T. Irwin, **David E. Thompson**, Cynthia A. Chestek, and Parag G. Patil. "Computational Model Comparing the Effects of Glial Scarring and Tip Metallization Loss on Neural Recordings." In *Neuromodulation*, 17:e72, 2014.

Huggins, Jane E., **David E. Thompson**, and Kirsten L. Gruis. "Plug-and-Play Brain-Computer-Interface Use by People with Amyotrophic Lateral Sclerosis." Toronto, Canada. *RESNA 2011*. http://web.resna.org/conference/proceedings/2011/RESNA_ICTA/huggins-69677.pdf.

Thompson, David E., Michael T. McCann, and Jane E. Huggins. "Controlling Wheelchair Tilt with a Brain-Computer Interface." *4th International BCI Meeting,* Asilomar, CA, 2010. http://bcimeeting.org/2010/poster_abstracts.shtml#R7.

Thompson, David E., John J. Baker, William A. Sarnacki, and Jane E. Huggins. "Plug-and-Play Brain-Computer Interface Keyboard Performance." In *2009 4th International IEEE/EMBS Conference on Neural Engineering*, 426–28. New York: IEEE, 2009.

Thompson, David E., Michael T. McCann, Carmela C. Lee, and Jane E. Huggins. "Impact of Wheelchair Tilt on P300 Brain-Computer Interface Accuracy." *Society for Neuroscience 2010.* San Diego, CA, Nov 13-17 2010.

Thompson, David E., Austin Wareing, Dwight Day, and Steve Warren. "Pulse Oximeter Improvement with an ADC-DAC Feedback Loop and a Radial Reflectance Sensor." In *28th Annual Conference of the IEEE EMBS*, 815–18. New York: IEEE, 2006.

Thompson, David E., and Steve Warren. "A Small, High-Fidelity Reflectance Pulse Oximeter." In *2007 Annual Conference and Exposition, American Society for Engineering Education*, 2007.

Book Chapters

Md Rakibul Mowla, Jane E. Huggins, and David E. Thompson. "Evaluation and Performance Assessment of a Brain-Computer Interface System." BCI Handbook. CRC Press. 2018.

Presentations and Workshops

- IEEE EMBS 2006, podium presentation, "A Small, High-Fidelity Reflectance Pulse Oximeter"
- RESNA 2009, workshop with Jane Huggins, "Brain-Computer Interfaces as Assistive Technology Interfaces"
- Kansas State University, invited presentation, "Unlocking possibilities while preserving performance: Putting the 'interface' back in Brain-Computer Interface"
- BCI Meeting 2013 (Asilomar, CA). "M:9 BCI Performance Metrics," workshop organizer and moderator
- Allen Community College, 2015 graduation speaker.
- BCI Meeting 2018 (Asilomar, CA). "Funding Officers Panel," moderator
- Texas State University. "Emotions aren't binary: challenges in measuring emotions with a computer," invited talk 2023.
- A4H Day, Albuquerque New Mexico, "KSU Research Progress" invited talk/presentation (given by Taylor Sweet due to a travel conflict).
- Texas Health Catalyst pitch competition: "The future of aging care: sleepy and passive?"