Qussai M. Obiedat

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EDUCATION

2015 – 2022	University of Wisconsin – Milwaukee, Milwaukee, WI
	Degree: PhD in Health Sciences – Occupational Science & Technology
2015 – 2017	University of Wisconsin – Milwaukee, Milwaukee, WI
	Graduate Assistive Technology and Accessible Design Certificate
2010 – 2013	University of Wisconsin – Milwaukee, Milwaukee, WI
	Degree: Master of Science in Occupational Therapy
2002 – 2007	Jordan University of Science and Technology, Irbid, Jordan
	Degree: Bachelor's degree in occupational therapy

PROFESSIONAL DEVELOPMENT

- Full scholarship to participate in an NIH-sponsored Short Course in Adaptive Neurotechnologies, offered by the National Center for Adaptive Neurotechnologies (NCAN), July 7 – 27, 2019.
- Doctoral minor in Educational Statistics and Measurement.

EMPLOYMENT

Assistant Professor   **October 2022 – Present**

Jordan University of Science and Technology (JUST), Irbid, Jordan

Assistant Professor at the department of Rehabilitation Sciences

Research Assistant   **January 2022 – August 2022**

UWM, Rehabilitation Research Design & Disability Center.

Teaching Assistant   **September 2020 – May 2021**

UWM, College of Health Sciences Teaching Assistantship Award.

Course: KIN 270 - Statistics in the Health Professions: Theory and Practice.

Teaching Assistant   **September 2019 - May 2020**

UWM, College of Health Sciences Teaching Assistantship Award.

Courses: OCCTHPY 880 - Master's Project, OCCTHPY-250 - Concepts of Time and Occupation, OCCTHPY-542G - Evidence for Practice II

Teaching Assistant   **September 2017 - May 2019**

UWM, College of Health Sciences Teaching Assistantship Award.

Course: KIN 270 - Statistics in the Health Professions: Theory and Practice.

Lecturer   **April 2013 – August 2015**

Jordan University of Science and Technology (JUST), Irbid, Jordan

A full-time lecturer at the department of Rehabilitation Sciences

Teaching Assistant   **September 2007- August 2010**

Jordan University of Science and Technology (JUST), Irbid, Jordan

Teaching assistant at the department of Rehabilitation Sciences

PUBLICATIONS, PRESENTATIONS & PROCEEDINGS

Publications & Proceedings (Peer Reviewed):

- Obiedat, Q., Sindhu, B. S., Wang, Y. (2022). Key human anatomy and physiology principles as they relate to rehabilitation engineering. In Mihailidis, A., & Smith, R. O. (Eds.), *Rehabilitation Engineering: Principles and Practice*. CRC Press. https://doi.org/10.1201/b21964.

- Obiedat, Q. M., Schwartz, J., Mendonca, R., Burns, S., Smith, R. O. (April, 2022). Studying the Educational Effect of a Self-paced Learning Protocol for Evaluating Community Environment Accessibility: A Preliminary Analysis. Proceedings of the 2022 American Occupational Therapy Association Annual Conference & Expo, San Antonio, TX.

- Obiedat, Q. M., Schwartz, J., Mendonca, R., Burns, S., Drake, M., O'Donnell, L., & Smith, R. O. (July, 2021). Using video recordings as a COVID-19 adaptation to study the inter-rater reliability of the AccessTools app. Scientific Paper at RESNA 2021 Annual Conference, Virtual Conference. https://www.resna.org/sites/default/files/conference/2021/ServiceDeliveryandOutcomes/112_Obiedat.html

- Burns, S., Schwartz, J., Mendonca, R., Obiedat, Q., & Smith, R. (2021). Access Ratings for Buildings: Feasibility Study and Implications for Interdisciplinary Training using the AccessTools App. Archives of Physical Medicine and Rehabilitation, 102(10), e14.

- Smith, R. O., Schwartz, J. K., Burns, S., Mendonca, R., Pickens, N., Drake, M. D., O'Donnell, L. M., Obiedat, Q. M. (2021). The Impact of Community Accessibility Assessment: A National Multisite Study. Proceedings of the 2021 Virtual OT Summit of Scholars. Retrieved from: https://uwm.edu/r2d2/wp-content/uploads/sites/438/2021/07/2021_OT_Summit_proceedings_23-to-25-June.pdf

- Obiedat, Q., Smith, R. O. (September, 2020). Optimizing the content validity of the AccessTools app through the study of inter-rater reliability. Scientific Paper at RESNA 2020 Annual Conference, Virtual Conference. https://www.resna.org/sites/default/files/conference/2020/StudentScientificPapers/Outcomes/130Obiedat.html

- George, O., Ardehali, M., Obiedat, Q., Follansbee, B., Ahamed, S., Smith, R. O. (September, 2020). Applying machine learning in the classification of visuospatial attention signal patterns for communication and control. Scientific Paper at RESNA 2020 Annual Conference, Virtual Conference. https://www.resna.org/sites/default/files/conference/2020/StudentScientificPapers/NewAndEmergingTechnology/111George.html

- Ardehali, M., Obiedat, Q., George, O., Follansbee, B., Smith, R. O. (September, 2020). Using a novel training paradigm for classification of Absolutely Volitional Covert Visuospatial Attention (AV-CVSA)

direction through EEG signals: a pilot study. Scientific Paper at RESNA 2020 Annual Conference, Virtual Conference.
https://www.resna.org/sites/default/files/conference/2020/StudentScientificPapers/NewAndEmergingTechnology/113Ardenhall.html

- Obiedat, Q., Ardehali, M., Follansbee, B., Smith, R. O. (June, 2019). The Integration of Brain-Computer Interface (BCI) as Control Module for Functional Electrical Stimulation (FES) Intervention in Post-Stroke Upper Extremity Rehabilitation. Scientific Paper at RESNA 2019 Annual Conference proceedings, Toronto, ON, Canada.
https://www.resna.org/sites/default/files/conference/2019/emerging_technology/Obiedat.html

- Smith, R. O., Scherer, M., Cooper, R., Bell, D., Hobbs, D. A., Pettersson, C., Obiedat, Q.O, ... & Srinivasan, S. S. (2018). Assistive technology products: a position paper from the first global research, innovation, and education on assistive technology (GREAT) summit. Disability and Rehabilitation: Assistive Technology, 1-13.

- Obiedat, Q., Ardehali, M., Smith, R. O. (July, 2018). Next Generation of Assistive Social Robotics: Therapeutic Applications. Poster at RESNA 2018 Annual Conference, Arlington, VA.

- Ardehali, M., Obiedat, Q., Smith, R. O. (July, 2018). Research and Development Needs and the Role of Rehabilitation Engineering in Combining Therapy and Social Robot Applications. Poster at RESNA 2018 Annual Conference, Arlington, VA.

- Obiedat, Q., Ardehali, M., Smith, R. O. (June,2017). EEG Brain-Computer Interface As An Assistive Technology: Adaptive Control And Therapeutic Intervention. Scientific Paper at RESNA 2017 Annual Conference proceedings, New Orleans, LA.
https://www.resna.org/sites/default/files/conference/2017/emerging_technology/Obiedat.html

- Obiedat, Q., Ardehali, M., Smith, R. O. (October, 2016). EEG Brain-Computer Interface (BCI) Systems and Implications. Poster at the 95th Annual Wisconsin Occupational Therapist Association Conference, Brookfield, WI.

Presentations (Peer Reviewed):

- Obiedat, Q. M., Schwartz, J., Mendonca, R., Burns, S., Smith, R. O. (June, 2022). Comparing the Effects of Using Video-simulated to On-site Accessibility Assessment on Students' Gained Knowledge. Poster presentation at the 2022 Occupational Therapy Summit of Scholars Annual Conference, Madison, WI.

- Obiedat, Q., Ardehali, M., Smith, R. O. (April, 2019). Introduction to EEG-Based Brain-Computer Interface (BCI): A Closed-Loop Neurofeedback. Tech Day Session at AOTA 2019 Annual Conference, New Orleans, Louisiana.

- Ardehali, M., Obiedat, Q., Smith, R. O. (April, 2018). NAO Robot: An Occupational Therapy Activities Assistant. Tech Day Session at the 2018 American Occupational Therapy Association Annual Conference & Expo, Salt Lake City, UT.

- Obiedat, Q., Ardehali, M., Smith, R. O. (June, 2017). Introduction to EEG-BCI, Neurofeedback Systems, and Applications. Workshop at RESNA 2017 Annual Conference, New Orleans, LA.

- Smith R.O., Ardehali, M., Love, J., Obiedat, Q., Saha, A.K., Schuh, C. (October, 2016). AccessTools and AccessPlace Environmental Accessibility Apps. Presentation at the 95th Annual Wisconsin Occupational Therapist Association Conference, Brookfield, WI.

- Smith R.O., Ardehali, M., Love, J., Obiedat, Q., Saha, A.K., Schuh, C. (April, 2016). AccessTools and AccessPlace Environmental Accessibility Apps. Presentation at the 96th Annual American Occupational Therapy Association Conference, Chicago, IL.

Presentations (Non-Peer Reviewed):

- Smith, R. O., Drake, M., Obiedat, Q., (October, 2019). In-Depth Instruction on Access Ratings for Building Applications: AccessPlace and Access Tools. Course presented at the Wisconsin Occupational Therapist Association 2019 Annual Conference, Appleton, WI. Retrieved from https://www.wota.net/assets/docs/2019%20WOTA%20Conference%20Courses%20updated.pdf.

- Obiedat, Q., Ardehali, M., Smith, R. O. (December, 2018). A Closed Loop Neural Activity Triggered Stroke Rehabilitation Using an EEG-Based Brain-Computer Interface. Podium presentation at the Occupational Science & Technology Research Lectureship, University of Wisconsin-Milwaukee. Milwaukee, WI. Retrieved from https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2018/12/OST-research-lectureship-proceedings.pdf

- Ardehali, M., Obiedat, Q., Smith, R. O. (December, 2018). A Review of Electroencephalogram Brain-Computer Interface (EEG-BCI) Systems and Applications in Occupational Therapy and Neurorehabilitation. Podium presentation at the Occupational Science & Technology Research Lectureship, University of Wisconsin-Milwaukee. Milwaukee, WI. Retrieved from https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2018/12/OST-research-lectureship-proceedings.pdf

- Obiedat, Q., Ardehali, M., Smith, R. O. (December, 2018). Next Generation of Assistive Social Robotics: Therapeutic Applications. Poster presentation at the Occupational Science & Technology Research Lectureship, University of Wisconsin-Milwaukee. Milwaukee, WI. Retrieved from https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2018/12/OST-research-lectureship-proceedings.pdf

- Ardehali, M., Obiedat, Q., Smith, R. O. (December, 2018). Research and Development Needs And The Role Of Rehabilitation Engineering In Combining Therapy And Social Robot Applications. Poster presentation at the Occupational Science & Technology Research Lectureship, University of Wisconsin-Milwaukee. Milwaukee, WI. Retrieved from https://uwm.edu/healthsciences/wp-content/uploads/sites/129/2018/12/OST-research-lectureship-proceedings.pdf

Under-review/Accepted Publications:

- Obiedat, Q. M., Schwartz, J., Mendonca, R., Burns, S., Smith, R. O. (Submitted). A Self-Paced Training Protocol for Evaluating Community Environment Accessibility. Conference presentation at the 2023 American Occupational Therapy Association Annual Conference & Expo, Kansas City, MO.

- Obiedat, Q., Ardehali, M., George, O., Follansbee, B., Smith, R. O. (Accepted, not presented due to COVID-19). Investigating a new EEG-based BCI Data Collection paradigm for the classification of Absolutely Volitional Covert Visuospatial Attention (AV-CVSA) direction: a pilot study. Occupational Therapy Summit of Scholars, Fort Collins, CO.

- Ardehali, M., Obiedat, Q., George, O., Follansbee, B., Smith, R. O. (Accepted, not presented due to COVID-19). Using a Novel Analysis Paradigm for Classification of Absolutely Volitional Covert Visuospatial Attention Direction through EEG Signals: A Pilot Study. Occupational Therapy Summit of Scholars, Fort Collins, CO.