Professur für Erziehungswissenschaftliche Bildungsforschung
Department Erziehungswissenschaft
Humanwissenschaftliche Fakultät

Potsdam, 26. Mai 2019

Ausschreibung zur Vergabe einer Abschlussarbeit

Am Arbeitsbereich Erziehungswissenschaftliche Bildungsforschung der Humanwissenschaftlichen Fakultät wird das folgende Masterarbeitsthema vergeben. Bei Interesse kontaktieren Sie bitte Dr. Yizhen Huang per E-Mail unter yihuang@uni-potsdam.de oder telefonisch unter 0331/977-203192.

Thema:

Through teacher's eyes: Eye movement during different instructional activities

Abstract:

Eye movement is a unique gateway to teacher's hidden mental process (Jarodzka, Holmqvist, & Gruber, 2017). The incessant movement of our eyes not only gathers information from the external surroundings, but it can also reveal something about our own knowledge and internal states (Liversedge, Gilchrist, & Everling, 2011). Eye movements are known to be linked with cognitive processes such as scene perception, pattern recognition and memory (Chua, Boland, & Nisbett, 2005; Chuk, Chan, & Hsiao, 2017). Teaching is inherently a cognitive demanding task that requires skillful attention allocation in complex situations (Cortina, Miller, McKenzie, & Epstein, 2015). What does the eye movement pattern look like as the teacher carries out different instructional activities, such as lecture, whole class discussion, small group discussion and seat-work? This project intends to examine teacher's eye movement during different instructional activities in real-life teaching.

Erforderliche Kenntnisse und Vorerfahrungen:

- Interested in eye movement data coding and analysis.
- Experience in scientific writing.
- Ideally with experience in quantitative research.

Studiengänge:

- Lehramtsstudiengänge (Sek I/II)
- Psychologie
- Erziehungswissenschaft

Organisatorisches:

Interessenten können sich ab sofort bei Frau Dr. Yizhen Huang. Regelungen zur Anfertigung von Masterarbeiten finden Sie unter https://www.uni-potsdam.de/de/erziehungswissenschaftliche-bildungs-forschung/abschlussarbeiten.html.

Literatur:

Chua, H. F., Boland, J. E., & Nisbett, R. E. (2005). Cultural variation in eye movements during scene perception. *Proceedings of the National Academy of Sciences of the United States of America*, *102*(35), 12629–12633. https://doi.org/10.1073/pnas.0506162102

Chuk, T., Chan, A. B., & Hsiao, J. H. (2017). Is having similar eye movement patterns during face learning and recognition beneficial for recognition performance? Evidence from hidden Markov modeling. *Vision Research*, *141*, 204–216. https://doi.org/10/gcssrk

Cortina, K. S., Miller, K. F., McKenzie, R., & Epstein, A. (2015). Where low and high inference data converge: Validation of CLASS assessment of mathematics instruction using mobile eye tracking with expert and novice teachers. *International Journal of Science and Mathematics Education*, *13*(2), 389–403. https://doi.org/10/f68m49

Jarodzka, H., Holmqvist, K., & Gruber, H. (2017). Eye tracking in educational science: Theoretical frameworks and research agendas. *Journal of Eye Movement Research*, *10*(1), 1–18. https://doi.org/10.16910/jemr.10.1.3

Liversedge, S. P., Gilchrist, I. D., & Everling, S. (2011). *The Oxford Handbook of Eye Movements*. Retrieved from http://www.oxfordhandbooks.com.proxy.lib.umich.edu/view/10.1093/oxfordhb/9780199539789.001.0001/oxfordhb-9780199539789