# Kyler Eastman, PhD

kyler.eastman@gmail.com OOOO 512.797.7275 OOOO www.linkedin.com/in/kylereastman

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math and statistics - signals, machine learning, algorithm development & optimization

exercise physiology – energy expenditure, heart rate variability, performance management

fitness industry – engaging visualizations, health data productization,

#### Experience

Performance Data Scientist - Under Armour Connected Fitness, Austin, TX

developed and scaled two unreleased (7/15) GPS features (4 patents pending)

ooo developed visualizations for South by Southwest, the UA Brand House in Soho, UACF headquarters

ooo designed caloric algorithms for the UA's first wearable, the HTC Grip

OOOO Conducted the first large-scale consumer segmentation survey for UA

## Research and Development Engineer - MapMyFitness, Austin, TX

2012 - 2013

GPS accuracy: developed evaluation framework leveraging bicycle wheel track time-series as an independent source of speed and distance, compared six distinct algorithms, the best of which reduced both accuracy and lag by 30%

Gait Analysis: developed algorithms for parsing and storing an evolving stride signature from the iPhone, producing metrics such as stride rate, contact time, left/right asymmetry (1 patent pending)

developed a wide network of relationships with academic subject matter experts in biomechanics, heart rate variability, energy expenditure and public health

Postdoctoral Research Engineer, Center For Perceptual Systems, UT Austin, Austin TX

Primary developer of electrophysiological experiment software, which included hardware/software integration, real-time programming, & solving human factors issues

## **Education**

0000	University of Texas - Austin, Austin, TX	Ph.D., Cognitive Psychology, 2008
0000	University of Texas - Austin, Austin, TX	M.A., Cognitive Psychology, 2005
0000	Brown University, Providence, RI	Sc.B., Applied Math: Scientific Computing, 1998

#### <u>Selected Publications</u>

Hirsch, J. A., James, P., Robinson, J. R., Eastman, K. M., Conley, K. D., Evenson, K. R., & Laden, F. (2014). Using MapMyFitness to place physical activity into neighborhood context. *Frontiers in public health*, 2.

Eastman, K. M., & Huk, A. C. (2012). PLDAPS: a hardware architecture and software toolbox for neurophysiology requiring complex visual stimuli and online behavioral control. *Frontiers in neuroinformatics*, 6.

Eastman, K., Stankiewicz, B., & Huk, A. (2007). Optimal weighting of speed and accuracy in a sequential decision-making task. *Journal of Vision*, 7(9), 428-428.

Eastman, Kyler M., and James A. Simmons. "A method of flight path and chirp pattern reconstruction for multiple flying bats." *Acoustics Research Letters Online* 6.4 (2005): 257-262.

### Additional Information

OOOBuilt 2D motion capture bike fit studio using infrared LEDs Otaught math for 2 years at a boarding school Ocoached the UT cycling team to conference championships Ohave run 2 half-marathons, 7 trail races, and >300 bicycle races in the US and Europe (category 3)