

## Drew M Altschul

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CONTACT INFORMATION	7 George Square Edinburgh, UK EH8 9JZ	<i>E-mail:</i> drew.altschul@ed.ac.uk <i>Phone:</i> +44 7961208343
EDUCATION	<b>The University of Edinburgh</b> , Edinburgh, Scotland PhD in Psychology, 2017  <b>Brandeis University</b> , Waltham, Massachusetts MS in Neuroscience, 2010  <b>Massachusetts Institute of Technology</b> , Cambridge, Massachusetts BS in Brain and Cognitive Sciences, 2008	
RESEARCH EXPERIENCE	<b>The University of Edinburgh</b> , Edinburgh, Scotland Department of Psychology <i>Postdoctoral Research Fellow</i> , with Prof Ian Deary <b>August 2017 - present</b>  <i>PCD PhD Scholar</i> , supervised by Dr Alexander Weiss & Prof Ian Deary <b>September 2013 - July 2017</b>  <b>Columbia University</b> , New York, NY Department of Psychology <i>Lab Manager</i> , with Prof Herbert Terrace <b>June 2010 - June 2013</b>  <b>The University of Cape Town</b> , Cape Town, South Africa Cognitive Ethology Research Group/Baboon Research Unit <i>Field Researcher</i> , with Dr Rahel Noser <b>September 2009 - April 2010</b>  <b>Brandeis University</b> , Waltham, MA Department of Neuroscience <i>Postgraduate Research Student</i> <b>August 2008 - May 2009</b>  <b>Massachusetts Institute of Technology</b> , Cambridge, MA Department of Brain and Cognitive Sciences <i>Undergraduate Researcher</i> , with Prof Earl Miller <b>May 2006 - May 2008</b>	
TEACHING EXPERIENCE	<b>The University of Edinburgh</b> , Edinburgh, Scotland <i>Writing Tutor</i> , PPLS School Writing Centre <b>September 2016 - July 2017</b>  <i>Tutor</i> , MSc Univariate and Multivariate Statistics <b>September 2013 - January 2017</b>  <i>Tutor</i> , Year 3 Critical Analysis <b>September 2014 - January 2017</b>  <i>Lab Tutor</i> , Year 1 Psychology <b>February 2015 - April 2015</b>  <i>Tutor</i> , Year 1 Psychology <b>September 2013 - May 2014</b>  <b>Columbia University</b> , New York, NY	

*Course Organizer*, Animal Cognition Seminar

**September 2010 - June 2013**

**Massachusetts Institute of Technology**, Cambridge, MA

*Teaching Assistant*, Animal Behavior

**September 2007 - January 2008**

#### OUTREACH

*Co-organizer*, Communication Roundtable    International Primatological Congress, **August 2016**  
*Organizer*, Big Brother is Nudging You    Edinburgh International Science Festival, **April 2016**  
*Presenter*, Science Night at the Zoo    Edinburgh International Science Festival, **April 2016**  
*Organizer*, The Great Ape Debate    Edinburgh International Science Festival, **April 2015**  
*Demonstrator*, Museum Late    National Museum of Scotland, **February 2015**

#### POSITIONS HELD

*Tutor Representative*, Department of Psychology    **October 2015 - July 2017**  
*Member*, Early Career Committee, American Society of Primatologists    **July 2015 - present**  
*Coordinator*, Individual Differences Journal Club    **September 2014 - July 2016**

#### AWARDS

2016 - Public Library of Science, Publication Assistance Award  
2015 - Great Britain Sasakawa Foundation, Research Training Travel Grant  
2014 - British Society for the Psychology of Individual Differences, Best Presentation  
2013 - Edinburgh Global Research Scholarship  
2013 - Principal's Career Development PhD Scholarship  
2008 - Sigma Xi, The Scientific Research Honors Society  
2008 - Umaer Basha Undergraduate Research Opportunities Fund  
2007 - John Reed Undergraduate Research Opportunities Fund

#### PUBLICATIONS

##### **In preparation**

Altschul, D.M., Hopkins, W.D., Weiss, A. Psychological and physiological stress across cultures and species: personality's impact on allostatic load in American and Japanese humans, and chimpanzees.

Altschul, D.M., Wraw, C., Der, G., Gale, C., Deary, I.J. Sex differences in weight gain from adolescence to middle-age: using machine learning to highlight cognitive, behavioral, and socioeconomic factors.

Altschul, D.M., Wraw, C., Der, G., Gale, C., Deary, I.J. Changes in depression scores across three decades the relationships with sex, early-life cognitive function, and sociodemographics.

Altschul, D.M., Gale, C., Deary, I.J. Early life cognitive function, sociodemographics, and physical and mental health in adults of Cebu, Philippines

Wilson, V.A.D., Freeman, H.D., Parr, L.A., LeFevre, C.E., Ochiai, T., Inoue-Murayama, M., Matsuzawa, T., Weiss, A., **Altschul, D.M.**. Assessment of facial metrics in chimpanzees: effects of age, sex, and personality.

##### **Submitted**

**Altschul, D.M.**, Wraw, C., Der, G., Gale, C., Deary, I.J. Hypertension and predictive interactions between biological sex and cognitive function.

**Altschul, D.M.**, Robinson, L.M., Coleman, K. , Capitanio, J., Wilson, V.A.D. An exploration

of the relationships among facial dimensions, age, sex, dominance status and personality in rhesus macaques (*Macaca mulatta*). *Submitted, International Journal of Primatology*.

**Altschul, D.M.** Leveraging multiple machine learning techniques to predict major life outcomes from a small set of psychological and socioeconomic variables: a combined bottom-up/top-down approach. *Socius, 1st Revision*.

**Altschul, D.M.**, Morton, F.B. Guidelines for using extraction methods in data reduction analyses of social relationship structures. *American Journal of Primatology, 2nd revision*.

**Altschul, D.M.**, Jensen, G., Terrace, H. S. Concept learning of ecological and artificial stimuli in rhesus macaques. *Cognition, 1st revision*. (Preprint available at <https://peerj.com/manuscripts/4614/>).

**Altschul, D.M.**, Hopkins, W.D., Weiss, A. Biomarkers and allostatic load compared between humans and captive chimpanzees. *Royal Society Open Science, In review*.

**Altschul, D.M.**, Hopkins, W.D., Herrelko, E.S., Inoue-Murayama, M., Matsuzawa, T., King, J.E., Ross, S.R., Weiss, A. Personality links to lifespan in chimpanzees. *eLife, 2nd revision*.

Morgan, V., **Altschul, D.M.**, Terrace H.S. (2017). Strategic and graduated metacognitive judgments by monkeys. *Journal of Comparative Psychology, 1st revision*.

## Published

Altschul, D.M., Starr, J.M., Deary, I.J. (2018) Cognitive function is associated with later life glycaemia in the Lothian Birth Cohort of 1936. *Diabetologia, Accepted*

Altschul, D.M., Wallace, E.K., Sonnweber, R.S., Tomonaga, M., Weiss, A. (2017). Chimpanzee intellect: personality, performance, and motivation with touchscreen tasks. *Royal Society Open Science* 4(5).

Altschul, D.M., Jensen, G., Terrace, H. S. (2017). Perceptual category learning of photographic and painterly stimuli in rhesus macaques (*Macaca mulatta*) and humans. *PLoS One*, 12(9), e0185576.

Altschul, D.M., Robinson, L.M., Wallace, E.K., Úbeda, Y., Llorente, M., Machanda, Z., Slocombe, K.E., Leach, M.C., Waran, N.K., Weiss, A. (2017). Chimpanzees with positive welfare are happier, extraverted, and emotionally stable. *Applied Animal Behaviour Science*, 191, 90-97

Wallace, E.K., Altschul, D.M., Pavonetti, S.P., Benti, B., Koerfer, K., Waller, B., Slocombe, K.S. (2017). Is music enriching for group-housed captive chimpanzees? *PLoS One*, 12(3), e0172672.

Altschul, D.M., Terrace, H. S., Weiss, A. (2016). Serial cognition and personality in macaques. *Animal Behavior and Cognition*, 3(1), 46.

Weiss, A., Altschul, D. (2016). Methods and applications of animal personality research. In J. Call (Ed.), *Handbook of Comparative Psychology*. Washington DC: American Psychological Association.

Jensen, G., Altschul, D. (2015). Two perils of binary categorization: why the study of concepts can't afford true/false testing. *Frontiers in psychology*, 6.

Avdagic, E., Jensen, G., Altschul, D., Terrace, H. (2014). Rapid cognitive flexibility of rhesus macaques performing psychophysical task-switching. *Animal Cognition*, 17 (3), 619-631.

Jensen, G., Altschul, D., Danly, E., Terrace, H.S. (2013). Rhesus macaques use a common representation space to solve distinct problems. *PLoS One*, 8 (7), e70285.

Jensen, G., Altschul, D., Terrace, H. (2013). Monkeys would rather see and do: preference for

agentic control in rhesus macaques. *Experimental Brain Research*, 229 (3), 429-442.

#### PRESENTATIONS

Altschul, D.M., Brosnan, S., Morton, F. B., Beran, M., Parrish, A., Weiss, A. (2017). Personality and self-control in non-human primates. Presented at the Scottish Primate Research Group Meeting, Brechin, UK.

Altschul, D.M. (2016). How to Lasso: Least absolute shrinkage and selection operator. Presented at EdinbR, Edinburgh, UK.

Altschul, D.M., Jensen, G., Terrace, H. S. (2016). Concept learning of ecological and artificial visual stimuli in humans and captive rhesus macaques. Presented at International Primatological Society Meeting, Chicago, IL, USA.

Altschul, D. M., King, J. E., Inoue-Murayama, M., Ross, S. R., Weiss, A. (2016). Longevity and personality in captive chimpanzees (*Pan troglodytes*). Presented at Chimpanzee Symposium, Chicago, IL, USA. (Preprint available at <https://peerj.com/manuscripts/10810/> ).

Altschul, D.M., Sonnweber, R.S., Wallace, E.K., Weiss, A. (2016). Chimpanzee motivation, personality, and intellect: evidence from touchscreen tasks. Presented at the Scottish Primate Research Group Meeting, Brechin, UK.

Altschul, D.M., Weiss, A. (2015). Individual differences in chimpanzee (*Pan troglodytes*) personality, learning, and engagement in touch screen tasks. Presented at the American Society of Primatologists Meeting, Bend, OR, USA. In *American Journal of Primatology*, 77, 93. 111 River St, Hoboken, 07030-5774, NJ, USA: Wiley-Blackwell.

Altschul, D.M., Sinn, D., Weiss, A. (2015). A comparative outlook on chimpanzee metabolic health: a personality and biomarker study. Presented at the Scottish Primate Research Group Meeting, Brechin, UK.

Altschul, D.M., Sinn, D., Weiss, A. (2014). Personality and blood chemistry associations with cardiovascular health in chimpanzees (*Pan troglodytes*). Presented at the American Society of Primatologists Meeting, Decatur, GA, USA. In *American Journal of Primatology*, 76, 61. 111 River St, Hoboken, 07030-5774, NJ, USA: Wiley-Blackwell.

Altschul, D.M., Jensen, G., Terrace, H.S. (2014). Perceptual concept learning using ecological and artificial stimuli in monkeys. Presented at the European Conference on Behavioural Biology, Prague, Czech Republic.

Altschul, D.M., Jensen, G., Terrace, H.S. (2014). Perceptual concept learning using ecological and artificial stimuli in monkeys. Presented at the British Society for the Psychology of Individual Differences, London, UK.