

## 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 Dissertation title: "Chimpanzee personality and its relations with cognition and health: a comparative perspective"  <b>Brandeis University</b> , Waltham, Massachusetts MSc in Neuroscience, 2010  <b>Massachusetts Institute of Technology</b> , Cambridge, Massachusetts SB in Brain and Cognitive Sciences, 2008	
RESEARCH EXPERIENCE	<b>The University of Edinburgh</b> , Edinburgh, Scotland Department of Psychology  <i>Research Associate</i> , at Mental Health Data Science Scotland <b>August 2018 - present</b>  <i>Research Fellow</i> , at Centre for Cognitive Ageing and Epidemiology <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>Laboratory 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>University of Dundee</b> , Dundee, Scotland  <i>Guest Lecturer</i> , People, Health, and Communities Advanced Methods Seminar <b>April 2019</b>  <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	
	<i>Course Organizer</i> , Animal Cognition Seminar	<b>September 2010 - June 2013</b>
	<b>Massachusetts Institute of Technology</b> , Cambridge, MA	
	<i>Teaching Assistant</i> , Animal Behavior	<b>September 2007 - January 2008</b>
OUTREACH	<i>Presenter</i> , Big Data Detectives	Edinburgh International Science Festival, <b>April 2019</b>
	<i>Co-organizer</i> , Communication Roundtable	International Primatological Congress, <b>August 2016</b>
	<i>Organizer</i> , Big Brother is Nudging You	Edinburgh International Science Festival, <b>April 2016</b>
	<i>Presenter</i> , Science Night at the Zoo	Edinburgh International Science Festival, <b>April 2016</b>
	<i>Organizer</i> , The Great Ape Debate	Edinburgh International Science Festival, <b>April 2015</b>
	<i>Demonstrator</i> , Museum Late	National Museum of Scotland, <b>February 2015</b>
POSITIONS & APPOINTMENTS	<i>Organizer</i> , Personality and Ageing Project, ManyPrimates Collaboration	<b>June 2019 - present</b>
	<i>Co-organizer</i> , Short Term Memory Project, ManyPrimates Collaboration	<b>April 2019 - present</b>
	<i>Chair</i> , Authorship Committee, ManyPrimates Collaboration	<b>November 2018 - present</b>
	<i>Co-organizer</i> , 1st ManyPrimates Workshop	<b>July 2019 - July 2020</b>
	<i>Co-organizer</i> , Doing Bayesian Data Analysis Reading Group	<b>September 2018 - January 2019</b>
	<i>Co-organizer</i> , REPS: REproducible Psychological Science	<b>September 2017 - May 2018</b>
	<i>Symposium Convener</i> , Euro Conference on Behavioral Biology	<b>January 2018 - August 2018</b>
	<i>Member</i> , Early Career Committee, American Society of Primatologists	<b>July 2015 - present</b>
	<i>Tutor Representative</i> , Department of Psychology	<b>October 2015 - July 2017</b>
	<i>Coordinator</i> , Individual Differences Journal Club	<b>September 2014 - July 2016</b>
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	<b>Submitted</b>  Wilson, V.A.D., Freeman, H.D., Parr, L.A., LeFevre, C.E., Ochiai, T., Inoue-Murayama, M., Matsuzawa, T., Weiss, A., <b>Altschul, D.M.</b> Assessment of facial metrics in chimpanzees: effects of age, sex, and personality. <i>Evolution &amp; Human Behaviour</i> , 2nd review.	

Many Primates, **Altschul, D.M.**, ... Establishing an infrastructure for collaboration in primate cognition research. *PLOS One*, 2nd review.

**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/>).

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

**Altschul, D.M.**, Hopkins, W.D., Weiss, A. Routine biomarkers and allostatic load compared between humans and captive chimpanzees. *Royal Society Open Science*, 1st revision.

**Altschul, D.M.**, Deary, I.J. Playing games is associated with reduced declines in cognitive function: a 68 year longitudinal cohort study. *Science Advances*, 1st review.

**Altschul, D.M.**, Starr, J.S., Deary, I.J. Blood pressure and cognitive function across the 8th decade: the Lothian Birth Cohort of 1936. *BMJ Open*, 1st review.

**Altschul, D.M.**, Wraw, C., Gale, C.R., Deary, I.J. How early-life cognitive and sociodemographic factors relate to the development of overweight and obesity in the US and the UK. *BMJ Open*, 1st review.

The Fragile Families Challenge Team, ... **Altschul, D.M.** ... Measuring the predictability of life outcomes with a scientific mass collaboration. *Proceedings of the National Academy of Sciences*, 1st review.

**Altschul, D.M.**, Iveson, M.I., Deary, I.J. Generational differences in loneliness and its psychological and sociodemographic predictors: an exploratory and confirmatory machine learning study. *Psychological Medicine*, 1st review.

Weiss, A., Feldblum, J.T., **Altschul, D.M.**, Foerster, S., Collins, D.A., Gilby, I.C., Kamenya, S., Mjungu, D., Wilson, M.L., Goodall, J., Pusey, A.E. Personality variation in wild chimpanzees is maintained by its changing association with rank: 40 years with the chimpanzees of Gombe, Uganda. *Nature*, Under consideration.

## Published

**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*, in press.

**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*). *International Journal of Primatology*, 1-21.

**Altschul, D.M.**, Wraw, C., Der, G., Gale, C., Deary, I.J. Hypertension development by midlife and the roles of pre-morbid cognitive function, sex, and their interaction. *Hypertension*, 73(4), 812-819.

**Altschul, D.M.**,\* Morton, F.B.\* Guidelines for using extraction methods in data reduction analyses of social relationship structures. *Animal Behaviour*, 149, 89-95.

Wilson, V.A., Guenther, A., Øverli, Ø., Seltmann, M.W., **Altschul, D.M.** Future Directions for Personality Research: Contributing New Insights to the Understanding of Animal Behavior. *Animals* 9(5), 240.

**Altschul, D.M.**, Hopkins, W.D., Herrelko, E.S., Inoue-Murayama, M., Matsuzawa, T., King, J.E., Ross, S.R., Weiss, A. Personality links with lifespan in chimpanzees. *eLife*, 7, e33781.

**Altschul, D.M.**, Starr, J.M., Deary, I.J. (2018) Cognitive function is associated with later life blood glucose in the Lothian Birth Cohort of 1936. *Diabetologia*, 61, 1946–1955.

**Altschul, D.M.** (2017) A replication of sexual dimorphisms in size and longevity in a simulated baboon population. *Evolution*, 71(10), 2533-2534.

**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.**, Iveson, M.I., Deary, I.J. (2019). Generational differences in loneliness and its psychological and sociodemographic predictors in the UK. Accepted for presentation at the Society for Longitudinal and Lifecourse Studies Conference, Postdam, Germany.

**Altschul, D.M.**, Warren, E. (2019). ManyPrimates: Establishing an Infrastructure for Collaboration in Primate Cognition Research. Presented at the Scottish Primate Research Group Meeting, Brechin, UK.

**Altschul, D.M.** (2018). Statistical power and its relevance to studies of primate behavior and cognition. Invited presentation, given at the International Primatological Society Congress, Nairobi, Kenya.

**Altschul, D.M.** (2018). Personality links with lifespan in chimpanzees. Presented at the International Primatological Society Congress, Nairobi, Kenya.

**Altschul, D.M.** (2018). Personality links with lifespan in chimpanzees. Presented at the European Conference on Behavioural Biology, Liverpool, UK.

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 Congress, 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.