

Curriculum Vitae

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Position: Senior Researcher

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Tertiary qualifications

Doctor of Philosophy (Psychology), The University of Sydney (2010-2013)

Bachelor of Psychology (Honours), Macquarie University, Sydney (2003-2007)

Publications

Preprints (manuscripts currently under review)

Melby, K., Spigset, O., Gråwe, R., Aamo, T., & **Quintana, D.S.** (2021). The effect of intranasal oxytocin on processing emotional stimuli during alcohol withdrawal: A randomized placebo-controlled double-blind clinical trial. *OSF Preprints*, <https://doi.org/10.31219/osf.io/x46jp>

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Etchells, P. J., Morgan, A., & **Quintana, D.S.** (2022). Loot box spending is associated with problem gambling but not mental wellbeing. *PsyArXiv*, <https://doi.org/10.31234/osf.io/v7fq4>

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Rokicki J., **Quintana D.S.**, Westlye L.T. (2022). Linking Central Gene Expression Patterns and Mental States Using Transcriptomics and Large-Scale Meta-Analysis of fMRI Data: A Tutorial and Example Using the Oxytocin Signaling Pathway. In: Werry E.L., Reekie T.A., Kassiou M. (eds) *Oxytocin. Methods in Molecular Biology*, vol 2384. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-1759-5_8

2021

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Shahrestani, S. Stewart, E. M., **Quintana, D.S.**, Hickie, I. B., Guastella, A. J. (2015). Heart Rate Variability during Adolescent and Adult Social Interactions: a Meta-Analysis. *Biological Psychology*, **105**, 43-50. doi:[10.1016/j.biopsycho.2014.12.012](https://doi.org/10.1016/j.biopsycho.2014.12.012)

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Kemp A.H., **Quintana, D.S.**, Quinn, C. R., Hopkinson, P., Harris, A. W. F. (2014). Major depressive disorder with melancholia displays robust alterations in resting state heart rate and its variability: Implications for future morbidity and mortality *Frontiers in Psychology*. **5**:1387. doi:[10.3389/fpsyg.2014.01387](https://doi.org/10.3389/fpsyg.2014.01387). doi:[10.3389/fpsyg.2014.01387](https://doi.org/10.3389/fpsyg.2014.01387)

Chalmers J, **Quintana D.S.**, Abbott M.J. and Kemp A.H. (2014). Anxiety disorders are associated with reduced heart rate variability: A meta-analysis. *Frontiers in Psychiatry* **5**:80. doi:[10.3389/fpsyg.2014.00080](https://doi.org/10.3389/fpsyg.2014.00080). doi:[10.3389/fpsyg.2014.00080](https://doi.org/10.3389/fpsyg.2014.00080)

Shahrestani, S., Stewart, E. M., **Quintana, D.S.**, Hickie, I. B., Guastella, A.J., (2014). Heart rate variability during social interactions in children with and without psychopathology: a meta-analysis. *Journal of Child Psychology and Psychiatry*, **55**(9), 981-989. doi:[10.1111/jcpp.12226](https://doi.org/10.1111/jcpp.12226)

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Quintana, D.S., Guastella, A.J., McGregor, I.S, Hickie, I. B., Kemp, A.H. (2013). Moderate alcohol intake is related to increased heart rate variability. *Psychophysiology*. **50**(12),1202-1208. doi:[10.1111/psyp.12134](https://doi.org/10.1111/psyp.12134)

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Alvares, G.A., **Quintana, D.S.**, Kemp, A.H., van Zweiten, A., Balleine, B. W., Hickie, I. G., & Guastella, A.J. (2013). Reduced Heart Rate Variability in Social Anxiety Disorder: Associations with Gender and Symptom Severity. *PLoS One*. **8**(7): e70468. doi:[10.1371/journal.pone.0070468](https://doi.org/10.1371/journal.pone.0070468)

Kemp, A.H., & **Quintana, D.S.** (2013). The relationship between mental and physical health: Insights from the study of heart rate variability. *International Journal of Psychophysiology*. **89**(3), 288-296. doi:[10.1016/j.ijpsycho.2013.06.018](https://doi.org/10.1016/j.ijpsycho.2013.06.018)

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2012

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Quintana, D.S., Heathers, J.A.J., Kemp, A.H. (2012). On the validity of using the Polar RS800 heart rate monitor for heart rate variability research. *European Journal of Applied Physiology*. 112:4179-4180. doi:10.1007/s00421-012-2453-2

Wells R., Outhred, T., Heathers, J.A.J., **Quintana D.S.**, Kemp, A. H. (2012). Matter over mind: A randomised controlled trial of single-session biofeedback training on performance anxiety and heart rate variability in musicians. *PLoS One*. 7(10), e46597. doi:10.1371/journal.pone.0046597

Kemp A.H., **Quintana D.S.**, Kuhnert, R.L., Griffiths, K., Hickie, I.B., Guastella, A. J. (2012). Oxytocin increases heart rate variability in humans at rest: Implications for social approach-related motivation and capacity for social engagement. *PLoS One*. 7(8), e44014. doi:10.1371/journal.pone.0044014

Kemp A.H., **Quintana D.S.**, Felmingham K.L., Matthews S., Jelinek H.F. (2012) Depression, Comorbid Anxiety Disorders, and Heart Rate Variability in Physically Healthy, Unmedicated Patients: Implications for Cardiovascular Risk. *PLoS ONE* 7(2): e30777. doi:10.1371 journal.pone.0030777

2011

Kemp, A. H., **Quintana, D.S.**, Gray, M., Felmingham, K., Brown, K., & Gatt, J. (2011). Impact of Depression, and antidepressant treatment on heart rate variability: A meta-analysis. *Biological Psychiatry*, 67(11), 1067-1074. doi:10.1016/j.biopsych.2009.12.012

Jelinek, H.F., Khandoker, A.H., **Quintana, D.S.**, Imam, M.H., Kemp, A.H. (2011). Complex correlation measure as a sensitive indicator of risk for sudden cardiac death in patients with depression. *Computing in Cardiology*, 38. [Download manuscript](#)

Kemp, A.H., **Quintana, D.S.**, Mahli, G.S. (2011). Effects of Serotonin Reuptake Inhibitors on Heart Rate Variability: Methodological Issues, Medical Comorbidity, and Clinical Relevance. *Biological Psychiatry*, 69 (8). doi:10.1016/j.biopsych.2010.10.035

Kemp, A.H., **Quintana, D.S.**, Gray, M. (2011). Is heart rate variability reduced in depression without cardiovascular disease? *Biological Psychiatry*. 69, e3-e4. doi:10.1016/j.biopsych.2010.07.030

2010

Kemp, A. H., Pe Benito, L., **Quintana, D.S.**, Clark, C. R., McFarlane, A., Mayur, P., et al. (2010). Impact of depression heterogeneity on attention: An auditory oddball event related potential study. *Journal of Affective Disorders*, 123 (1). doi:[10.1016/j.jad.2009.08.010](https://doi.org/10.1016/j.jad.2009.08.010)

Competitive grant funding

South-Eastern Norway Regional Health Authority (Open Project Support), NOK 9,000,000 (USD 1,026,000), 2022-2025. Grant round success rate: 12.1%

Research Council of Norway (Researcher Project for Scientific Renewal), NOK 12,000,000 (USD 1,410,000), 2021-2026. Grant round success rate: 8.4%

Kavli Trust (Program on Health Research), NOK 5,000,000 (USD 583,662), 2021-2025. Grant round success rate: 5%

Research Council of Norway (Young Research Talents), NOK 7,990,000 (USD 909,900), 2020-2024. Grant round success rate: 11.7%

Novo Nordisk Foundation (Excellence Project for Young Researchers within Endocrinology), DKK 5,000,000 (USD 750,000), 2016-2021. Grant round success rate: 12%

Australian Rotary Health/The Hooton Family PhD grant, AUD 78,750 (USD 61,690), 2010-2013

Competitive awards and achievements

[Among the top 150](#) of all Norwegian researchers for the number of publications (2017-2020) according to the Cistin database (39.7 publication points)

Clarivate Web of Science Highly Cited Researcher award (2021)

Royal Norwegian Society of Sciences and Letters Award for Young Researchers - The I.K. Lykkes Prize (2021)

Clarivate Web of Science Highly Cited Researcher award (2020)

Rafaelsen Young Investigators Award, International College of Neuropsychopharmacology (2016)

Society of Biological Psychiatry (SOBP) International Travel Fellowship (2015)

H. Tasman Lovell Memorial Medallion for best thesis in 2013 - University of Sydney (2014)

Postgraduate Publication Prize - University of Sydney (2013)

Australasian Society for Psychiatric Research grant-in-aid (2010)

Science Communication activities

Twitter: twitter.com/dsquintana

Podcast: everythinghertz.com

YouTube: <https://www.youtube.com/user/dsquintana85>

Professional Training

Norwegian for Intermediates, Norwegian Australian Language & Information services (2012-2013)

Foundations of Research Supervision training, University of Sydney (2013)

Applied Good Clinical Practice (GCP) training, ARCS Australia (2012)

Languages

English (mother tongue)

Norwegian (Listening comprehension level: B1; Reading comprehension level B1; Oral conversation level B1; Writing level A2)

Selected invited lectures and workshops

Quintana, D.S. (2020). Reproducible Meta-analysis [Invited workshop], *(In)credible Research conference*, Berlin, Germany (Delivered online due to COVID-19).

Quintana, D.S. (2020). Social media for academics: Why and how [Invited lecture], *Conflict Dynamics Workshop 2020*, University of Oxford, UK (Delivered online due to COVID-19).

Quintana, D.S. (2020). Synthetic data: A primer [Invited lecture], *RIOT Science club*, King's College London, UK (Delivered online due to COVID-19).

Quintana, D.S. (2020). Improving the credibility of meta-analysis [Invited lecture], *Animal Behavior Society 2020 meeting* (Delivered online due to COVID-19).

Quintana, D.S. (2019). Heart Rate Variability (HRV): physiology, methodology and experimental possibilities [Invited workshop], *RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion*, University of Oslo, Norway.

Quintana, D.S. (2019). Using Open Scientific Practices to Get Rapid Feedback on Your Research [Invited Keynote Lecture], *Doing Good Symposium*, Max Plank Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

Quintana, D.S. (2019). Oxytocin's modulatory effects on social cognition [Invited Colloquium Lecture], *Department of Psychology*, University of Copenhagen, Denmark

- Quintana, D.S.** (2019). Identifying central targets for intranasal oxytocin administration and the optimal dose [Invited Lecture], *Behavioral Science Institute*, Radboud University, Netherlands
- Quintana, D.S.** (2019). Applying Open Science Practices to Your Research [Invited Two-day workshop], *Conference of the German Association of Biological Psychology*, Dresden, Germany
- Quintana, D.S.** (2018). Using heart rate variability to estimate the outflow of the autonomic nervous system: Applications for the biobehavioral sciences [Invited Lecture], *Leiden Institute for Brain and Cognition*, Leiden University, Netherlands
- Quintana, D.S.** (2017). Oxytocin's modulatory effects on social cognition: The role of intranasal dose and delivery [Invited Lecture], *Center for Psychosocial Medicine Heidelberg University Hospital*, Heidelberg, Germany
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Selected oral presentations

- Quintana, D.S.** (2019). Identifying central targets for intranasal oxytocin administration and the optimal dose [Oral presentation], *Social Cognitive and Affective Neuroscience Society Annual Meeting*, Miami, USA
- Quintana, D.S.** (2019). Functional implications of oxytocin receptor expression patterns in the human brain across the lifespan [Oral presentation], *Scandinavian College of Neuropsychopharmacology Annual Meeting*, Gothenburg, Sweden
- Quintana, D.S.** (2017). An randomized controlled trial of intranasal oxytocin for autism [Oral presentation], *Society of Biological Psychiatry Annual Meeting*, San Diego, USA
- Quintana, D.S.** (2017). Oxytocin's modulatory effects on social cognition: The role of intranasal dose and delivery [Invited Lecture], *Center for Psychosocial Medicine Heidelberg University Hospital*, Heidelberg, Germany
- Quintana, D.S.** (2017). An randomized controlled trial of intranasal oxytocin for autism [Oral presentation], *Scandinavian College of Neuropsychopharmacology Annual Congress*, Copenhagen, Denmark
- Quintana, D.S.** (2015). Oxytocin and autism spectrum disorders [Invited Seminar Presentation]. Department of neurorehabilitation, *Oslo University Hospital*, Oslo, Norway.
- Quintana, D.S.** (2015). Heart rate variability in psychiatric illness: A dimensional perspective [Invited Seminar Presentation]. Institute of Basic Medical Sciences, *University of Oslo*, Oslo, Norway.
- Quintana, D.S.** (2015). Oxytocin treatment of psychiatric illness [Seminar Presentation]. Division of Mental Health and Addiction, *Oslo University Hospital*, Oslo, Norway.
- Quintana, D.S.** (2015). Oxytocin, psychophysiology and in psychiatric illness [Invited Seminar Presentation]. Department of Psychology, *University of Oslo*, Oslo, Norway

- Quintana, D.S.** (2014). Cardiorespiratory oscillations in psychiatric illness [Workshop Presentation]. NORMENT imaging workshop, *Oslo University Hospital*, Oslo, Norway.
- Quintana, D.S.** (2014). Heart rate variability in psychiatric illness [Invited Seminar Presentation]. *Modum Bad Hospital*, Vikersund, Norway.
- Chalmers, J., **Quintana, D.S.**, Abbott, M. J., & Kemp, A.H. (2013). The impact of anxiety on heart rate variability at rest and under stress [Oral presentation]. *Australasian Society for Psychophysiology Conference*, Wollongong, Australia
- Chalmers, J., **Quintana, D.S.**, Abbott, M. J., & Kemp, A.H. (2013). The impact of anxiety and its disorders on heart rate variability: A meta-analysis [Oral presentation]. *Australasian Society for Psychophysiology Conference*, Wollongong, Australia
- Quintana, D.S.**, Guastella, A.J. Kemp, A.H. (2013). Heart rate variability and oxytocin: Where we've been, where we are, and where we're going [Invited Seminar Presentation]. Department of Clinical Neurosciences, *University of Gothenburg*, Sweden.
- Quintana, D.S.**, Guastella, A.J. Kemp, A.H. (2012). Oxytocin and heart rate variability: A role in social behavior and psychiatric illness [Invited Seminar Presentation]. Department of Psychology, *University of Oslo*, Norway.
- Quintana, D.S.**, Guastella, A.J. Kemp, A.H. (2012). Moderate alcohol intake increases heart rate variability [Oral presentation]. *Australasian Society for Psychophysiology Conference*, Sydney, Australia
- Kemp, A.H., & **Quintana, D.S.** (2012) The relationship between mental and physical health: Insights from the study of heart rate variability [Oral presentation]. *Australasian Society for Psychophysiology Conference*, Sydney, Australia
- Quintana, D.S.**, Kemp, A.H., Guastella, A.J. (2012). Heart rate variability and social dysfunction [Invited Symposium Presentation]. *Australian Association for Cognitive Behavioral Therapy National Conference*, Gold Coast, Australia.
- Quintana, D.S.**, Matthews, S., Jelinek, H., Kemp, A.H. (2010). Reduced heart rate variability in depression is not driven by antidepressant medication [Oral presentation]. *Australasian Society for Psychiatric Research Conference*, Sydney, Australia.
- Quintana, D.S.**, Felmingham, K., Gray, M., Brown, K., Gatt, J., & Kemp, A. H. (2009). Impact of Depression, anxiety comorbidity and antidepressant treatment on heart rate variability: A meta-analysis. [Oral presentation]. *9th World Congress of Biological Psychiatry*, Paris, France.

Posters

- Quintana, D.S.** et al (2018). Oxytocin gene networks in the human brain: A gene expression and large-scale fMRI meta-analysis study [Poster presentation], *Society of Biological Psychiatry Annual Meeting*, New York, USA
- Quintana, D.S.** (2016). Low dose intranasal oxytocin delivered with Breath Powered device modulates amygdala response to emotional stimuli: A peripheral effect-controlled within-subjects randomized dose-response fMRI trial [Poster presentation]. *Society of Biological Psychiatry Annual Meeting*, Atlanta, USA

- Quintana, D.S.** (2016). Reliability of basal plasma vasopressin concentrations in healthy male adults [Poster presentation], *CINP World Congress of Neuropsychopharmacology*, Seoul, Republic of Korea
- Quintana, D.S.** et al., (2015). Low dose oxytocin delivered intranasally with Breath Powered device affects social-cognitive behavior: a randomized 4-way crossover trial with nasal cavity dimension assessment [Poster presentation]. *Society of Biological Psychiatry Annual Meeting*, Toronto, Canada
- Quintana, D.S.**, Guastella, A.J., Hickie, I. B., Kemp, A.H. (2012). Heart rate variability predicts emotion recognition: Direct evidence for a relationship between the autonomic nervous system and social cognition. [Poster presentation]. *Federation of European Neuroscience Societies Forum*, Barcelona, Spain.
- Kemp, A.H., **Quintana, D.S.**, Outhred, T., Malhi, G. (2012). The relationship between mental and physical health: Insights from the study of heart rate variability [Poster presentation]. *Society for Psychophysiology Research*, New Orleans, USA.
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Research Supervision

COMPLETED POSTGRADUATE SUPERVISION

PhD Theses

Adriano Winterton, Faculty of Medicine, University of Oslo, (2017-2021)

Masters theses

Chalmers, J (2013). Department of Psychology, University of Sydney, Supervised together with Andrew Kemp

Iorfino, F (2013). Sydney Medical School, University of Sydney, supervised together with Adam Guastella

Poppy, C (2014). Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Smevik, H (2014) Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Tesli, N (2014). Centre for Mind/Brain Sciences, University of Trento, Supervised together with Lars Westlye and Gianpaolo Basso

Mathias Valstad (2016). Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Liudmila Rezvaya (2016). Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Hanna Lishaugen (2016). Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Elise Stensønes (2016). Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Beatrice Benjamin (2020), School of Business and Social Sciences, Aarhus University, Supervised together with Lars Larsen

ONGOING POSTGRADUATE SUPERVISION

PhD supervision

Alina Sartorius, Department of Psychology, University of Oslo (2021-)

Kristin Audunsdottir, Department of Psychology, University of Oslo (2021-)

Heemin Kang (2022-)

Employment History

SENIOR RESEARCHER, UNIVERSITY OF OSLO (2016-)

- Leading a research program on the role of oxytocin system dysfunction in cognition and metabolic syndrome
- Development of a cardiorespiratory oscillation research program in psychiatric illness
- Research student supervision

POSTDOCTORAL RESEARCH FELLOW, UNIVERSITY OF OSLO (2014-2016)

- Coordinating oxytocin treatment trials in healthy and ASD populations
- Development of a cardiorespiratory oscillation research program in psychiatric illness
- Supervision of Masters Research Students

CLINICAL TRIAL COORDINATOR AND RESEARCH ASSOCIATE, THE UNIVERSITY OF SYDNEY (2008-2014)

- Coordinating a clinical trial of chronic oxytocin treatment for substance dependence
- Assisting with the coordination of a trial on the effects of a single SSRI dose on fMRI and HRV

SOCIAL PSYCHOLOGY TEACHING ASSISTANT, THE UNIVERSITY OF SYDNEY (2014)

- Teaching classes on social psychology
- Marking assignments and exams
- Supervising in class data collection for experiments

SOCIAL PSYCHOLOGY RESEARCH ASSISTANT, MACQUARIE UNIVERSITY (2006-2007)

- Assisted in research on emotion and stigma
- Participant recruitment and conducting experiments

Editorial Appointments

Editorial Boards

Advances in Methods and Practices in Psychological Science
BMC Psychology
Journal of Psychophysiology

Ad Hoc Reviewer

Nature Human Behavior
Biological Psychiatry
Translational Psychiatry
Biological Psychology
Alcoholism: Clinical and Experimental Research
Journal of Affective Disorders
Psychoneuroendocrinology
Drug and Alcohol Dependence
International Journal of Psychophysiology
Psychopharmacology
Psychophysiology
Progress in Neuro-Psychopharmacology and Biological Psychiatry
Journal of Psychosomatic Research
Frontiers in Emotion Science
Psychiatry Research
Physiology & Behavior
American Journal of Human Biology
Australian and New Zealand Journal of Psychiatry
Frontiers in Psychology
Cognition and Emotion
Journal of Science and Medicine in Sport
Acta Neuropsychiatrica
PLoS One
Applied Psychophysiology and Biofeedback
Current Drug Delivery

Competitive grant reviewer

National Science Centre (Poland) 2019
Paris Institute for Advanced Study 2020
Medical Research Council (UK) 2020
Research Foundation - Flanders (Belgium) 2020
Swiss National Science Foundation (Switzerland) 2020

Referees

PROF. LARS WESTLYE
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Professor - University of Oslo, Norway
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