

# Curriculum Vitae

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**Name:** Daniel S. Quintana

**Position:** 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)

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## Publications

### *Submitted Manuscripts*

**Quintana D.S.**, Rokicki, J., van der Meer, D., Alnaes, D., Kaufmann, T., Cordova-Palomera, A., Dieset, I., Andreassen, O.A., Westlye, L.T. (under review). Oxytocin gene networks in the human brain: A gene expression and large-scale fMRI meta-analysis study. *Preprint* [doi:10.1101/149526](https://doi.org/10.1101/149526)

Heathers, J., **Quintana, D.S.**, Angus, D., Krygier, J., Kemp, A., & de Rosnay, M. (under review). Water consumption as a source of error in the measurement of heart rate variability. *Preprint* [doi: 10.31219/osf.io/83exy](https://doi.org/10.31219/osf.io/83exy)

Zaidi, T.A., **Quintana, D.S.**, Song, Y.C., Thomas, E.E., Matthews, S., Guastalla, A.J. (under review). Reduced autonomic flexibility across a temporal paradigm of social engagement in children with autism spectrum disorder.

Rødevand, L., Steen N, Elvsåshagen, T., **Quintana, D.S.**, Reponen, E.J., Mørch, R.H., Lunding, S.H., Vedal, T.S.J, Dieset, I., Melle, I., Lagerberg, T.V., Andreassen, O.A. (under review). Cardiovascular disease risk factors remain high in schizophrenia with small-to-moderate improvements in bipolar disorder during the past decade.

Torske, T., Nærland, T., **Quintana, D.S.**, Hypher, R.E., Kaale, A., Høyland, A-L., Hope, S., Johannessen, J., Øie, M.G., & Andreassen, O.A. (under review) Sex differences in the relationship between social difficulties and executive dysfunction in children and adolescents with autism spectrum disorder.

Vrabel, K.R., Wampold, B., **Quintana, D.S.**, Goss, K., Hoffart, A. (under review). The Modum-ED trial protocol: Comparing Compassion-Focused Therapy (CFT) and Cognitive-Behavioural Therapy (CBT) in Treatment of Eating Disorders (EDs) with and without Childhood Trauma: Protocol of a Randomised Trial.

Mygind, L., Kjeldsted, E., Hartmeyer, R., Mygind, E., Stevenson, M.P., **Quintana, D.S.**, & Bentsen, P. (under review). Effects of public green space on psychophysiological stress markers: a systematic review and meta-analysis of the experimental evidence.

2018

- Quintana, D.S.**, Westlye, L.T., Alnæs, D., Kaufmann, T., Mahmoud, R.A., Smerud, K.T., Djupesland, P.G., & Andreassen, O.A. (2018). Low dose intranasal oxytocin delivered with Breath Powered device modulates pupil diameter and amygdala activity: a randomized controlled pupillometry and fMRI study. *Neuropsychopharmacology* (Accepted October 1, 2018)
- Quintana, D.S.**, Smerud, K.T., Andreassen, O.A., & Djupesland, P.G. (2018). Evidence for intranasal oxytocin delivery to the brain: recent advances and future perspectives. *Therapeutic Delivery*, 9(7), 515-525, doi: [10.4155/tde-2018-0002](https://doi.org/10.4155/tde-2018-0002)
- Quintana, D.S.**, Westlye, L.T., Smerud, K.T., Mahmoud, R.A., Andreassen, O.A., & Djupesland, P.G. (2018). Saliva oxytocin measures do not reflect peripheral plasma concentrations after intranasal oxytocin administration in men. *Hormones and Behavior*, 102, 85-92. doi: [10.1016/j.yhbeh.2018.05.004](https://doi.org/10.1016/j.yhbeh.2018.05.004)
- Quintana D.S.**, Williams, D. (2018). Bayesian alternatives for common null-hypothesis significance tests in psychiatry: A non-technical guide using JASP. *BMC Psychiatry*, 18(178) doi: [10.1186/s12888-018-1761-4](https://doi.org/10.1186/s12888-018-1761-4)
- Quintana D.S.** (2018). Revisiting non-significant effects of intranasal oxytocin using equivalence testing. *Psychoneuroendocrinology*. doi: [10.1016/j.psyneuen.2017.10.010](https://doi.org/10.1016/j.psyneuen.2017.10.010)
- Demetriou, E. A., Lampit, A., **Quintana, D.S.**, Naismith, S.L., Song, Y.J., Pye, C. E., Hickie, I, Guastella, A.J. (2018). Autism Spectrum Disorders: A meta-analysis of executive function. *Molecular Psychiatry*, 23(5), 1198-1204, doi: [10.1038/mp.2017.75](https://doi.org/10.1038/mp.2017.75)
- Murray, S.B., **Quintana, D.S.**, Loeb, K.L., Griffiths, S., & Le Grange, D. (2018). Treatment outcomes for anorexia nervosa: a systematic review and meta-analysis of randomized controlled trials. *Psychological Medicine*, 1-10, doi: [10.1017/S0033291718002088](https://doi.org/10.1017/S0033291718002088)
- Cacciotti-Saija, C., **Quintana D.S.**, Alvares, G. A., Hickie, I.B., Guastella, A. J. (2018). Reduced heart rate variability in a treatment-seeking early psychosis sample. *Psychiatry Research*, 269, 293-300, doi: [10.1016/j.psychres.2018.08.068](https://doi.org/10.1016/j.psychres.2018.08.068)
- Sønderby, I.E., Gústafsson, O., Doan, N.T., Hibar, D.P., Martin-Brevet, S... **Quintana, D.S.**, ... Thompson, P.S., & Andreassen, O.A. (2018). Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia. *Molecular Psychiatry* (Accepted May 24, 2018)

2017

- Quintana D.S.**, Steen, N.E., and Andreassen, O.A. (2017). The Promise of Intranasal Esketamine as a Novel and Effective Antidepressant. *JAMA Psychiatry*. doi:[10.1001/jamapsychiatry.2017.3738](https://doi.org/10.1001/jamapsychiatry.2017.3738)
- Valstad, M., Alvares, G.A., Egknud, M., Matziorinis, A.M., Andreassen, O.A., Westlye, L.T, and **Quintana, D.S.** (2017). The correlation between central and peripheral oxytocin concentrations: a systematic review and meta-analysis. *Neuroscience & Biobehavioral Reviews*, 78, 117-124 doi: [10.1016/j.neubiorev.2017.04.017](https://doi.org/10.1016/j.neubiorev.2017.04.017)
- Quintana, D.S.**, Westlye, L.T., Hope, S., Nærland, T., Elvsåshagen, T., Dørum, E., Rustan, Ø., Valstad, M., Rezvaya, L., Lishaugen, H., Stensønes, E., Yaqub, S., Smerud, K.T., Mahmoud, R.A., Djupesland, P.G., Andreassen, O.A. (2017). Dose-dependent social-cognitive effects of intranasal oxytocin delivered with novel Breath Powered device in

adults with autism spectrum disorder: A randomized placebo controlled double blind crossover trial. *Translational Psychiatry*, **7**(5), doi: [10.1038/tp.2017.103](https://doi.org/10.1038/tp.2017.103)

- Quintana, D.S.**, Dieset, I., Elvsåshagen, T., Westlye, L.T., Andreassen, O.A. (2017). Oxytocin system dysfunction as a common mechanism underlying metabolic syndrome and psychiatric symptoms in severe mental illness. *Frontiers in Neuroendocrinology*, **45**, 1-10, doi: [10.1016/j.yfrne.2016.12.004](https://doi.org/10.1016/j.yfrne.2016.12.004)
- Quintana, D.S.**, Elvsåshagen, T., Zak, N., Norbom, L.B., Pedersen, P.Ø., Quraishi, S.H., Bjørnerud, A., Malt, U.F., Groote, I.R., Kaufmann, T., Andreassen, O.A., Westlye, L.T. (2017). Diurnal Variation and Twenty-four Hour Sleep Deprivation do not Alter Resting Heart Rate Variability in Healthy Male Young Adults. *PLOS ONE*, **12**(2): e0170921, doi: [10.1371/journal.pone.0170921](https://doi.org/10.1371/journal.pone.0170921)
- Quintana, D.S.** (2017). Statistical considerations for reporting and planning heart rate variability case-control studies. *Psychophysiology*, **54**(3), 344–349, doi: [10.1111/psyp.12798](https://doi.org/10.1111/psyp.12798)
- Quintana, D.S.**, Westlye, L.T., Smerud, K.T., Mahmoud, R.A., Djupesland, P.G., Andreassen, O.A. (2017). Reliability of basal plasma vasopressin concentrations in healthy male adults. *Acta Neuropsychiatrica*, **25**(9), 315-321, doi: [10.1017/neu.2016.67](https://doi.org/10.1017/neu.2016.67)
- Kemp, A.H., and **Quintana D.S.** (2017). Heart Rate Variability in Psychiatric Disorders, Methodological Considerations, and Recommendations for Future Research. In H.F. Jelinek, D.J. Cornforth, and A.H. Khandoker (Eds.), *ECG Time Series Variability Analysis* (pp. 327-343). Boca Raton, FL: CRC Press.
- Griffiths, K.R., **Quintana, D.S.**, Hermens, D.F., Spooner, C., Tsang, T., PhD, Clarke, S., Kohn, M.R. (2017). Sustained Attention and Cardiac Vagal Control in children and adolescents with ADHD. *Biological Psychology*, **124**, 11-20 doi: [10.1016/j.biopsycho.2017.01.004](https://doi.org/10.1016/j.biopsycho.2017.01.004)
- Alvares, G.A., **Quintana, D.S.**, Whitehouse, A. (2017) Beyond the hype and hope: critical considerations for intranasal oxytocin research in autism spectrum disorder. *Autism Research*, **10**(1), 25–41, doi: [10.1002/aur.1692](https://doi.org/10.1002/aur.1692)
- 2016**
- Quintana, D.S.**, Guastella, A.J., Westlye, L.T., Andreassen, O.A. (2016). The promise and pitfalls of intranasally administering psychopharmacological agents for the treatment of psychiatric disorders. *Molecular Psychiatry*, **21**(1). doi:[10.1038/mp.2015.166](https://doi.org/10.1038/mp.2015.166)
- Quintana, D.S.**, Westlye, L.T., Alnæs, D., Rustan, Ø.G., Kaufmann, T. Smerud, K.T., Mahmoud, R.A., Djupesland, P.G., Andreassen, O.A. (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. *Psychoneuroendocrinology*. doi:[10.1016/j.psyneuen.2016.04.010](https://doi.org/10.1016/j.psyneuen.2016.04.010)
- Quintana, D.S.**, Westlye, L.T., Kaufmann, T., Rustan, Ø.G., Brandt, C.L., Haatviet, B., Steen, N.S., Andreassen, O.A. (2016). Reduced heart rate variability in schizophrenia and bipolar disorder compared to healthy controls. *Acta Psychiatrica Scandinavica*, **133**(1). doi: [10.1111/acps.12498](https://doi.org/10.1111/acps.12498)
- Quintana, D.S.**, Elstad, M., Kaufmann, T., Brandt, C.L., Haatviet, B., Haram, M., Nerhus, N., Westlye, L.T., Andreassen, O.A. (2016). Resting-state heart rate variability is related to

respiratory frequency in individuals with severe mental illness but not healthy controls. *Scientific Reports*, **6**:37212, doi: [10.1038/srep37212](https://doi.org/10.1038/srep37212)

Chalmers, J.A., Heathers, J.A.J., Abbott, M.J., Kemp A.H., and **Quintana, D.S.** (2016). Worry is associated with robust reductions in heart rate variability: A transdiagnostic study of anxiety psychopathology. *BMC Psychology*, **4**(32). doi: [10.1186/s40359-016-0138-z](https://doi.org/10.1186/s40359-016-0138-z)

**Quintana, D.S.**, Alvares, G. A. (2016). Oxytocin: How does this neuropeptide change our social behavior? *Frontiers for Young Minds*, **4**:7 doi: [10.3389/frym.2016.00007](https://doi.org/10.3389/frym.2016.00007)

**Quintana, D.S.**, Alvares, G. A., Heathers, J. A. (2016). Guidelines for Reporting Articles on Psychiatry and Heart rate variability (GRAPH): Recommendations to advance research communication. *Translational Psychiatry*, **6**(5):e803, doi:[10.1038/tp.2016.73](https://doi.org/10.1038/tp.2016.73)

Valstad, M., Alvares, G.A., Andreassen, O.A., Westlye, L.T., and **Quintana, D.S.** (2016). The relationship between central and peripheral oxytocin concentrations: a systematic review and meta- analysis protocol. *Systematic Reviews*, **5**(49). doi: [10.1186/s13643-016-0225-5](https://doi.org/10.1186/s13643-016-0225-5)

**Quintana, D.S.** & Doan N.T. (2016). Twitter Article Mentions and Citations: An Exploratory Analysis of Publications in The American Journal of Psychiatry. *The American Journal of Psychiatry*, **173**(2). doi: [10.1176/appi.ajp.2015.15101341](https://doi.org/10.1176/appi.ajp.2015.15101341)

**Quintana, D.S.**, Outhred, T., Westlye, L.T., Malhi, G.S., Andreassen, O.A. (2016). The impact of oxytocin administration on brain activity: a systematic review and meta-analysis protocol. *Systematic Reviews*, **5**:2015, doi: [10.1186/s13643-016-0386-2](https://doi.org/10.1186/s13643-016-0386-2)

Iorfino, F., Alvares, G.A., Guastella, A.J., **Quintana, D.S.** (2016). Cold face test-induced increases in heart rate variability are abolished by engagement in a social cognition task. *Journal of Psychophysiology* (accepted 29/04/15). doi:[10.1027/0269-8803/a000152](https://doi.org/10.1027/0269-8803/a000152)

Alvares, G.A., **Quintana, D.S.**, Hickie, I.B., Guastella, A.J., (2016). Autonomic Nervous System Dysfunction in Psychiatric Disorders and the Impact of Psychotropic Medications: A Systematic Review and Meta-Analysis. *Journal of Psychiatry and Neuroscience* (accepted 25/06/15). doi:[10.1503/jpn.140217](https://doi.org/10.1503/jpn.140217)

Onuoha R.C., **Quintana D.S.**, Lyvers M., and Guastella A.J. (2016). Meta-analysis of Theory of Mind in Alcohol Use Disorders. *Alcohol and Alcoholism*, **51**(4), 410-415 doi:[10.1093/alcac/agv137](https://doi.org/10.1093/alcac/agv137)

**Quintana, D.S.** & Woolley, J.D. (2016). Intranasal oxytocin mechanisms can be better understood but its effects on social cognition and behavior are not to be sniffed at. *Biological Psychiatry*, **79**(8), doi:[10.1016/j.biopsych.2015.06.021](https://doi.org/10.1016/j.biopsych.2015.06.021)

Haram, M., Bettella, F., Brandt C.L., **Quintana, D.S.**, Nerhus, M., Bjella, T., Djurovic, S., Westlye, L.T., Andreassen, O.A., Melle, I., Tesli, M. (2016). Contribution of oxytocin receptor polymorphisms to amygdala activation in schizophrenia spectrum disorders. *British Journal of Psychiatry Open*, **2**(6), 353-358, doi: [10.1192/bjpo.bp.116.003376](https://doi.org/10.1192/bjpo.bp.116.003376)

## 2015

**Quintana, D.S.**, Westlye, L.T., Rustan, Ø.G., Tesli, N., Poppy, C, Smevik, H., Tesli, M., Røine, M., Mahmoud, R., Smerud, K., Djupesland, P.G., Andreassen, O.A. (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. *Translational Psychiatry*, 5,e602. doi:10.1038/tp.2015.93

**Quintana, D.S.**, Alvares, G. A., Hickie, I.H., Guastella, A. J. (2015). Do delivery routes of intranasally administered oxytocin account for observed effects on social cognition and behavior? A two-level model. *Neuroscience & Biobehavioral Reviews*, 49, 182-192. doi: 10.1016/j.neubiorev.2014.12.011

**Quintana, D.S.** (2015). From pre-registration to publication: a non-technical primer for conducting a meta-analysis to synthesize correlational data. *Frontiers in psychology*, 6, 1549, doi: 10.3389/fpsyg.2015.01549

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

Masi, A., **Quintana, D.S.**, Glozier, N., Lloyd, A., Hickie, I.B., Guastella, A.J. (2015). Cytokine aberrations in Autism Spectrum Disorder: A systematic review and meta-analysis. *Molecular Psychiatry*, 20, 440-446. doi:10.1038/mp.2014.59

## 2014

**Quintana, D.S.** & Heathers, J.A.J. (2014). Considerations in the assessment of heart rate variability in biobehavioral research. *Frontiers in Psychology*, 5:805. doi:10.3389/fpsyg.2014.00805

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. doi: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. doi: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

## 2013

**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

**Quintana, D.S.**, Guastella, A.J., McGregor, I.S, Hickie, I. B., Kemp, A.H. (2013) Heart rate variability predicts craving in alcohol dependent outpatients: Further evidence for HRV as a psychophysiological marker of self-regulation. *Drug and Alcohol Dependence*. 132(1), 395-398. doi:10.1016/j.drugalcdep.2013.02.025

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. doi: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

**Quintana, D.S.**, Kemp, A.H., Alvares, G.A., Guastella, A.J. (2013). A role for autonomic cardiac control in the effects of oxytocin on social behavior and psychiatric illness. *Frontiers in Neuroscience*. 7:48. doi:10.3389/fnins.2013.00048

**Quintana, D.S.**, McGregor, I.S., Guastella, A.J., Malhi, G.S., Kemp, A.H. (2013). A meta-analysis on the impact of alcohol dependence on short-term resting state heart rate variability: Implications for cardiovascular risk. *Alcoholism: Clinical and Experimental Research*. 37(S1), E23-E29. doi:10.1111/j.1530-0277.2012.01913.x

## 2012

**Quintana, D.S.**, Guastella, A.J., Outhred, T., Hickie, I. B., Kemp, A.H. (2012). Heart rate variability is associated with emotion recognition: Direct evidence for a relationship between the autonomic nervous system and social cognition. *International Journal of Psychophysiology*. 86(2),168-172. doi:10.1016/j.ijpsycho.2012.08.012

**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

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## Competitive funding and Awards

Excellence Project for Young Researchers within Endocrinology, Novo Nordisk Foundation, DKK 5,000,000 (USD 750,000), 2016-2021.

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)

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

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

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## 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)

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## Presentations

**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]. NORMEMT 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]. *9<sup>th</sup> 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

#### *Masters theses*

Chalmers, J (2013) *Heart rate variability in anxiety disorders: At rest and under stress*. Department of Psychology, University of Sydney, Supervised together with Andrew Kemp

Iorfino, F (2013) *Heart rate variability and social cognition*. Sydney Medical School, University of Sydney, supervised together with Adam Guastella

Poppy, C (2014) *Functional Activation and Connectivity under the Influence of Oxytocin: An Explorative Study using Functional Magnetic Resonance Imaging*. Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Smevik, H (2014) *Effects of Oxytocin on Resting State Functional Connectivity: An Explorative Approach*. Department of Psychology, University of Oslo, Supervised together with Lars Westlye

Tesli, N (2014) *Investigations into oxytocin effects on resting state functional connectivity using independent component analysis*, Centre for Mind/Brain Sciences, University of Trento, Supervised together with Lars Westlye and Gianpaolo Basso

## ONGOING POSTGRADUATE SUPERVISION

### *PhD supervision*

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

### *Masters co-supervision*

Beatrice Benjamin, School of Business and Social Sciences, Aarhus University (2018-)

## **Employment History**

### RESEARCHER, UNIVERSITY OF OSLO (2016-)

- Leading a research program on the role of oxytocin system dysfunction in metabolic syndrome and severe mental illness
- 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
- Acquisition and analysis of EEG, ECG, and eye tracking data

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

- Teaching classes on social psychology
- 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

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## **Editorial Appointments**

### *Editorial Boards*

BMC Psychology - Associate Editor  
Journal of Psychophysiology - Associate editor  
Frontiers in Emotion Science - Review Editor

### *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)

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## **Independently developed research collaborations**

### INTERNATIONAL

*Theme: Oxytocin and social cognition*

Joshua D. Woolley, MD, PhD  
University of California, San Francisco, USA

*Theme: A dimensional approach to heart rate variability in psychopathology*

Julian Koenig, PhD  
University of Heidelberg, Germany

NATIONAL

*Theme: A dimensional approach to heart rate variability in psychopathology*

Harald Bækkelund, KariAnne Vrabel, Pål Ulvenes  
Modum Bad Hospital, Norway

Maja Elstad, MD, PhD  
Department of Physiology, University of Oslo

Toril Dammen, MD, PhD  
Department of Medicine, University of Oslo

Anita Hansen, PhD  
University of Bergen, Norway

*Theme: Oxytocin and social cognition*

Trond Aamo, MD, PhD  
Norwegian University of Science and Technology, Trondheim, Norway

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## **Referees**

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