

Pia Tio, MSc

Personal Information

Name	Pia Tio
Date of birth	June 19th, 1990
Work Address	Prof. Cobbenhagenlaan 225, S720, 5037 DB, Tilburg, the Netherlands Nieuwe Achtergracht 129-B, REC-G 0.40, 1018 WT, Amsterdam, the Netherlands
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Employment

2016 – present **PhD candidate at Tilburg University & University of Amsterdam**
Promotors: Prof. Dr. J. K. Vermunt & Prof. Dr. D. Borsboom.
Co-promotors: Dr. K. Van Deun & Dr. L. J. Waldorp.

Education

2013 – 2015 **MSc RM Psychology, University of Amsterdam (Cum Laude; GPA: 8.8)**
Specialisation: Psychological Research Methods.
Minor: IOPS Grant Competition Programme
Internship: *Mapping the Manuals of Madness: Comparing the ICD-10 and DSM-IV-TR using a network approach*, supervisors: Prof. Dr. D. Borsboom. Grade: 9.0
Thesis: *The Cognition Network: Relations amongst Cannabis Use, Genetic Risk for Schizophrenia, and Cognitive Abilities*, supervisors: Prof. Dr. T. Paus (University of Toronto, Canada) & Prof. Dr. D. Borsboom. Grade: 8.5

2010 – 2013 **BSc Psychology, University of Amsterdam (GPA: 8.4)**
Specialisation: Clinical Psychology.
Minor: Biology: Ecology and Evolution.

2008 – 2011 **BSc Psychobiology, University of Amsterdam (Cum Honore; GPA: 8.0)**
Specialisation: Psychology.
Thesis: *Investigating Gender Differences in the Development of Trust in Patients with Schizophrenia*, supervisor: P. M. Gromann, MSc. (VU University). Grade: 8.5

Additional Education

2017	<i>Statistical Learning</i> (University of Leiden)
2016	<i>Applied Bayesian Statistics</i> (Utrecht University) <i>Optimization and Numerical Methods in Statistics</i> (KU Leuven)
2014	<i>Mixed and Longitudinal Modeling</i> (University of Leiden) <i>Introduction in Multilevel and SEM</i> (Utrecht University) <i>Statistical Genetics for Gene Finding</i> (VU University) <i>Complex Trait Genetics</i> (VU University)
2012	<i>Evolutionary Biology Theory</i> (University of Amsterdam) <i>Evolutionary Biology Practical</i> (University of Amsterdam) <i>Ecosystem Dynamics</i> (University of Amsterdam)
2011	<i>Educating for the Good Life</i> (VU University) <i>The Use of Statistics in Legal Court Cases</i> (VU University)
2010	<i>Masters of Suspicion</i> (University of Amsterdam) <i>The Dark Side of Democracy</i> (University of Amsterdam)

Professional Experience

Teaching

2018	Lecturer “Network Models 1” (University of Amsterdam, research master Psychology)
2017 – present	(Co-)supervisor “Thesis” (University of Amsterdam, research master Psychology)
2016 – 2018	Lecturer “MTO-E: Qualitative Research Methods” (Tilburg University, various Social Sciences bachelors)
2014 – 2015	Teaching assistant “Scientific Writing and Presenting” (University of Amsterdam, research master Psychology)
2014	Teaching assistant “Research Methods and Analysis of Scientific Research” (University of Amsterdam, bachelor Beta-Gamma)
2013	Teaching assistant “Neuroanatomy & -physiology” (University of Amsterdam, bachelor Psychobiology)
2011 – 2012	Teaching assistant “Practicals, Statistics and Experimental Design & AV” (University of Amsterdam, bachelor Psychobiology)
2010 – 2012	Teaching assistant “Basic Statistics” (University of Amsterdam, bachelors Psychobiology, Bio-medical Sciences, & Biology)

Research

2015	Research assistant in collaboration with Dr. T. J. P. van Schijndel, University of Amsterdam. Topic: <i>Young Children’s Science Learning through Exploratory Play</i> .
2015	Research assistant in collaboration with Dr. I. Visser, University of Amsterdam. Topic: <i>The Dynamics of Alcohol Addiction: Optimising Attentional Bias Measurement to Obtain Early Warning Signals to Predict Intervention Success</i> .

Membership

Dutch/Flemish Classification Society (VOC)
Complex Systems Society (CSS)
Netherlands Society for Statistics and Operations Research (VVS+OR)
Psychometric Society
Interuniversity Graduate school of Psychometrics and Sociometrics (IOPS)

Other

2018	2-day Workshop “Network Modeling for Psychological (and Attitudinal) Data”, University of Oldenburg, Germany
2016 – present	Statistical consultant PsychoSystems Data Analysis Center, University of Amsterdam
2015	Member Open Science Collaboration for the Reproducibility Project: Psychology
2014	Methodology shop consultant at the “Methodologiewinkel”, University of Amsterdam
2012 – 2013	Member Studentgroup (“Studentenfractie”) Clinical Psychology, University of Amsterdam
2012 – 2013	Member Faculty Student Council, Faculty of Social and Behavioural Sciences, University of Amsterdam
2011	Council assistant Central Student Council, University of Amsterdam
2009 – 2010	Member Central Student Council, University of Amsterdam
2008 –2011	Member Board of Studies Psychobiology, University of Amsterdam

Ad Hoc Reviewing

International Journal of Methods in Psychiatric Research
Journal of Abnormal Psychology

Computer Knowledge

Advanced knowledge	R Microsoft Office SPSS
Basic knowledge	L ^A T _E X MPlus HLM MERLIN PLINK Haploview

Publications

Tio, P., Waldorp, L.J., Borsboom, D., Leonard, G., Richer, L., Pausova, Z., & Paus, T. (2018). Age- and sex-related variations in cognitive networks during adolescence. *Manuscript in preparation*.

Van Borkulo, C., Boschloo, L., Kossakowski, J.J., **Tio, P.**, Schoevers, R., Borsboom, D., & Waldorp, L. (2016). Comparing network structures on three aspects: A permutation test. *Manuscript in preparation*.

Tio, P., Waldorp, L.J., & Van Deun, K. (2018). *Introducing SNAC: Sparse Network and Component model for integration of multi-source data*. Accepted at Studies in Classification, Data Analysis and Knowledge Organization. pre-print: <https://psyarxiv.com/km52a/>

Tio, P., Epskamp, S., Noordhof, A., & Borsboom, D. (2016). Mapping the manuals of madness: Comparing the ICD-10 and DSM-IV-TR using a network approach. *International Journal of Methods in Psychiatric Research*, 25(4), 267-276.

Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science*, 349(6251).

Presentations

Tio, P., Waldorp, L. J., & Van Deun, K. (2018). *Sparse Network And Component (SNAC) model for integrating multi-source data*. Presentation for the 83rd Annual Meeting of the Psychometric Society (IMPS), New York City, New York, July 2018.

Tio, P., Waldorp, L. J., & Van Deun, K. (2018). *Estimating cross-source relationships from wide big data using component- and network-analysis*. Presentation for the 1st Big Data in Psychology conference, Trier, Germany, June 2018.

Tio, P., Waldorp, L. J., & Van Deun, K. (2017). *Sparse Network And Component analysis: Constructing graphical models for multi-set data*. Presentation for the 2017 Conference of the International Federation of Classification Societies (IFCS), Tokyo, Japan, August 2017.

Tio, P., Waldorp, L. J., & Van Deun, K. (2017). *Sparse Network And Component analysis: Constructing graphical models for multi-set data*. Presentation for the 82nd Annual Meeting of the Psychometric Society (IMPS), Zurich, Switzerland, July 2017.

Tio, P., Waldorp, L. J., & Van Deun, K. (2017). *Sparse Network And Component analysis: Constructing graphical models for multi-set data*. Presentation for the Summer Conference of the Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS), Leuven, Belgium, June 2017.

Tio, P., Waldorp, L. J., & Van Deun, K. (2016). *SPANC: Simultaneous Principal and Network Components Model for Integration of Multiset Data*. Presentation for the 22nd Conference on Computational Statistics (COMPSTAT), Oviedo, Spain, August 2016.

Tio, P., Epskamp, S., Noordhof, A., & Borsboom, D. (2015). *Same Madness, Same Structure? Comparing the International Classification of Diseases and Related Health Problems (ICD) and the Diagnostic and Statistical Manual of Mental Disorders (DSM) Using a Network Approach*. Poster for the International Convention of Psychological Science 2015 (ICPS), Amsterdam, the Netherlands, March 2015.

Tio, P., Epskamp, S., Noordhof, A., & Borsboom, D. (2014). *Same Madness, Same Structure? Comparing the International Classification of Diseases and Related Health Problems (ICD) and the Diagnostic and Statistical Manual of Mental Disorders (DSM) Using a Network Approach*. Poster for the 9th Research Masters's Annual Graduate Conference, Amsterdam, the Netherlands, October 2014.

Grants

2015	Travel grant for masterthesis in Canada: €500 - Amsterdam University Fund
2015	Research grant for masterthesis in Canada: €1,000 - Bekker-La Bastide-Fund
2014	Travel grant: €75 - International Convention of Psychological Science