CURRICULUM VITAE – Dr. Boris Beranger

PERSONAL DETAILS	Address:	School of Mathematics and Statistics UNSW Sydney Sydney NSW 2052, Australia
	E-mail:	b.beranger@unsw.edu.au
	Web:	https://www.borisberanger.com
	Phone:	+61 2 9385 7083
	Citizenship:	French
RESEARCH	My Google	scholar profile can be accessed via http://bit.do/e4pRB. I have a gen-

INTERESTS	eral interest in Extreme Value Theory, both from a theoretical and methors spective. In particular, I am interested in modelling the dependence stru- tivariate and spatial extremes with an emphasis on environmental appli- conduct research on big data related problems and have recently devel- work for statistical analysis based data summaries.	odological per- ucture of mul- cations. I also oped a frame-	
CURRENT POSITIONS	Research Associate UNSW Sydney <i>Supervisor:</i> Prof. Scott Sisson	2016-	
	Associate Investigator ARC Centre of Excellence for Mathematical and Statistical Frontiers	2017-	
EDUCATION	Ph.D. in Statistics (under cotutelle) Institutions: Université Pierre and Marie Curie (UPMC), Paris 6 UNSW Sydney Supervisors: Prof. Michel Broniatowski (UPMC) Prof. Scott Sisson (UNSW Sydney) Dr. Simone Padoan (Bocconi University of Milan, Italy) Title: "Modelling the dependence structure of multivariate and spatial extremes".	2012-2016	
	Masters of Mathematics (Statistics) Institution: Université Pierre and Marie Curie (UPMC), Paris 6	2009-2011	
REFEREED PUBLICATIONS	 [1.] Zhang, X., Beranger, B. and Sisson, S. A. (2019). "Constructing likelihood functions for interval-valued random variables". To appear in <i>Scandinavian Journal of Statistics</i> (Q1). 		
	[2.] Beranger, B., Padoan, S. A., Xu, Y. and Sisson, S. A. (2019). "Extremal properties of the multivariate extended skew-normal distribution, Part B". <i>Statistics and</i> <i>Probability Letters</i> (Q3), 147, 105–114.		
	[3.] Beranger, B. , Padoan, S. A., Xu, Y. and Sisson, S. A. (2019). "Extremal the univariate extended skew-normal distribution, Part A". <i>Statistics a Probability Letters</i> (Q3), 147, 73–82.	properties of and	

	[4.] Beranger, B., Duong, T., Perkins-Kirkpatrick, S. and Sisson, S. A. (2019). density estimation for exploratory data analysis using kernel methods". of Nonparametric Statistics (Q2), 31(1), 144–174.	"Tail Journal	
	[5.] Beranger, B., Padoan, S. A. and Sisson, S. A. (2017). "Models for extrem dependence derived from skew-symmetric families". <i>Scandinavian Journ</i> <i>Statistics</i> (Q1), 44, 21–45.	al al of	
	[6.] Beranger, B. and Padoan, S. A. (2015). "Extreme Dependence Models", Value Modelling and Risk Analysis: Methods and Applications, 325–352, Cha Hall/CRC.	in <i>Extreme</i> Ipman	
- SUBMITTED PAPERS	[7.] Beranger, B., Padoan, S. A. and Sisson, S. A. "Estimation and uncertainty quantification for extreme quantile regions". Under second revision.		
	[8.] Beranger, B., Lin, H. and Sisson, S. A. "New models for symbolic data a	nalysis".	
	[9.] Beranger, B., Stephenson, A. G. and Sisson, S. A. "High dimensional intusing the extremal skew-t processes".	erence	
- PAPERS IN PREPARATION	[10.] Whitaker, T., Beranger, B. and Sisson, S. A. "Composite likelihood methods for histogram-valued random variables".		
	[11.] Brito, P., Beranger, B. and Sisson, S. A. "Interval-valued variables and functions".	quantile	
	[12.] Beranger, B. , McGree, J. M. and Sisson, S. A. "Design of interval and h random variables".	istogram	
	[13.] Whitaker, T., Beranger, B. and Sisson, S. A. "Logistic regression model histogram-valued data".	for	
	[14.] Rahman, P., Beranger, B. , Roughan, M. and Sisson, S. A. "Fitting mode internet traffic networks with summarised data".	els to	
	[15.] Beranger, B., Stewart, M. and Sisson, S. A. "Extremal type theorems for aggregated data".	or mean	
- GRANTS AND AWARDS	Research Support Scheme <i>ARC Centre of Excellence for Mathematical and Statistical Frontiers</i> Financial support to establish a collaboration with CSIRO, Data61, Aus- tralia (\$7,600).	2018	
	J. B. Douglas award <i>NSW Branch of the Statistical Society of Australia (SSA)</i> Award for Postgraduate excellence.	2014	

Ph.D. SUPERVISION	Prosha Rahman , UNSW Sydney <i>Topic:</i> Symbolic data analysis for renewal processes. <i>Joint supervisor:</i> Prof. Scott Sisson.	2019-	
_	Thomas Whitaker , UNSW Sydney <i>Topic:</i> Statistical modelling using symbolic random variables. <i>Joint supervisor:</i> Prof. Scott Sisson.	2016-	
MASTER AND HONOURS	Max Fisher (Honours, <i>joint supervision</i>), UNSW Sydney <i>Topic:</i> Statistical analysis using distribution-valued data.	2019	
SUPERVISION	Lewis Wright (Honours, <i>joint supervision</i>), UNSW Sydney <i>Topic:</i> Extremal type theorems for symbolic data.	2019	
	Bowen Wang (Masters, joint supervision), UNSW Sydney2019Thesis: "Symbolic data analysis for generalized extreme value model".2019		
_	Yangfan Xu (Masters, <i>joint supervision</i>), UNSW Sydney <i>Thesis:</i> "On the extremes of extended skew-normal random v ables".	2017 vari-	
TEACHING ACTIVITES	Lecturer , Introduction to Statistics and Statistical Computing (MATH5856) UNSW Sydney, School of Mathematics and Statistics Postgraduate course, Course convenor. <i>Evaluation (MyExperience report):</i> Satisfaction = 100%, Mean score = 6/6, Response rate = 8/12.	Term 1, 2019	
	Lecturer , Statistical Analysis of Dependent Data (MATH3841) UNSW Sydney, School of Mathematics and Statistics Third year course, Course convenor. <i>Evaluation (MyExperience report):</i> Satisfaction = 100%, Mean score = 6/6, Response rate = 4/6.	Semester 2, 2018	
	Tutor , Advanced topics in Statistical Machine Learning (COMP9418) UNSW Sydney, School of Computer Science and Engineering Postgraduate year course.	Semester 2, 2017	
	Tutor , Calculus (MATH1131) UNSW Sydney, School of Mathematics and Statistics First year course Also taught in Semester 2, 2012 and Semester 1, 2015.	Semester 1, 2017	
	Tutor , Statistics for Life and Social Sciences (MATH1041) UNSW Sydney, School of Mathematics and Statistics First year course Also taught in Semester 1 & 2, 2015.	Semester 1, 2017	
	Lecturer , Introduction to Statistics Ecole Supérieure d'Ingénieur Leonard de Vinci, Courbevoie, France First year course in engineering school Also taught in Semester 2, 2013.	Semester 1, 2014	

	Lecturer , Introduction to Statistics & Probability Ecole Supérieure des Sciences Commerciales d'Angers, Boulogne, France First year course in business school.	Semester 1, 2014
- INVITED TALKS	11th International Conference of the ERCIM WG on Computational Methodological Statistics, University of Pisa, (Italy). "Inference for extremal- <i>t</i> and skew- <i>t</i> max-stable models in high dim sions".	and 2018 ien-
	Data science: new data, new paradigms: From data to classes a classes as statistical units, University of Paris Dauphine (France). "Extreme value analysis using symbolic data".	and 2018
	9th International Conference of the ERCIM WG on Computational Methodological Statistics, University of Seville (Spain). "On some features of the skewed families of max-stable processes".	and 2016
	8th International Conference of the ERCIM WG on Computational Methodological Statistics, Senate House, University of London (UK) "Extremes of Skew-Symmetric distributions".	and 2015
SEMINARS	Australian National University (Australia). "New models for symbolic data analysis".	2019
	Melbourne University (Australia). "First steps in the analysis of Symbolic Data".	2017
CONTRIBUTED TALKS	10th Conference on Extreme Value Analysis, TU Delft (Netherlands) "A composite likelihood based approach for max-stable processes us histogram-valued variables".	. 2017 Sing
	Australian Statistical Conference, Canberra (Australia). "On some features of the skewed families of max-stable processes".	2016
	9th Conference on Extreme Value Analysis, University of Michi (USA). "Exploratory data analysis of extreme values using non-parametric I nel methods".	gan 2015 ker-
_	Australian Statistical Conference in conjunction with the Institute Mathematical Statistics Annual Meeting, Sydney (Australia). "Likelihood based estimation method for Extreme dependence mode	e of 2014 ls".
REFEREEING	Spatial Statistics (Q1) https://www.journals.elsevier.com/spatial-statisti	cs
	<pre>Statistics and Computing (Q1) https://www.springer.com/statistics/journal/11222</pre>	

	Stochastic Environmental Research and Risk Assessment (Q1) http://www.springer.com/environment/journal/477			
	Weather and Climate Extremes (Q1) https://www.journals.elsevier.com/weather-and- climate-extremes			
	Journal of Agricultural, Biological, and Environmental Statistics (Q2) https://www.springer.com/statistics/journal/13253			
	Statistics (Q2) https://www.tandfonline.com/loi/gsta20			
	Dependence Modeling (Q3) https://www.degruyter.com/view/j/demo			
- SOFTWARE	R package ExtremalDep (Extremal Dependence)			
	Available on R-Forge and CRAN. <i>Description:</i> Provides a set of procedures for modelling parametrically and non- parametrically the dependence structure of multivariate extreme-values. The statistical inference is performed with non-parametric estimators, likelihood-based estimators and Bayesian techniques.			
	Collaborators: Dr. Giulia Marcon and Dr Simone Padoan.			
- CURRENT RES- -PONSIBILITIES	Statistical Society of Australia, NSW Branch Treasurer	2018-		
	Member of the council	2017-		
	UNSW Statistics Seminar Series Organiser	2018-		
– OUTREACH	Year 10 Work Experience Program ACEMS initiative with Mosman High School 7 day program involving a dozen of high school students.	2017-2019		
OTHER	Organising committee member <i>Early Career Researchers Retreat</i> , Gold Coast (Australia) Part of ARC Centre of Excellence for Mathematical and Statistical Fron- tiers annual retreat.	2017		
	Statistics Reading Group <i>Organizer</i> School of Mathematics and Statistics, UNSW Sydney	2016-2018		
	Organising committee member 1st Annual Postgraduate Conference School of Mathematics and Statistics, UNSW Sydney	2014		

Scott Sisson Professor School of Mathematics and Statistics UNSW Sydney Scott.Sisson@unsw.edu.au Simone Padoan Doctor Department of Decision Sciences Bocconi University of Milan Simone.Padoan@unibocconi.it