

# Peng Zhong

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**GitHub:** github.com//PangChung

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**Research Interests**      Extremes; High dimensional inference; Machine learning; Nonparametric statistics

**Education**      **King Abdullah University of Science and Technology**      Saudi Arabia  
PhD in Statistics      1, 2019 – Present  
Advisor: Prof. Raphaël Huser

**King Abdullah University of Science and Technology**      Saudi Arabia  
MS in Statistics      8, 2017 – 12, 2018  
Advisor: Prof. Raphaël Huser

**Southern University of Science and Technology**      Shenzhen, China  
BA in Financial Mathematics      8, 2013 – 6, 2017

**Honors & Scholarships**      National Encouragement Scholarship (SUSTech)      2015  
Establishment of SUSTech Scholarship (SUSTech)      2013

**Publications**      **Exact simulation of max-infinitely divisible processes**  
Peng Zhong, Raphaël Huser, and Thomas Opitz.  
[arXiv preprint 2103.00533](#), submitted, 2021

**Modeling non-stationary temperature maxima based on extremal dependence changing with event magnitude**  
Peng Zhong, Raphaël Huser, and Thomas Opitz  
*Annals of Applied Statistics*, [to appear](#), 2021

**Inference for max-stable processes based on the Vecchia approximation**  
Raphaël Huser, Michael Stein, and Peng Zhong  
*In preparation*

**Are spatial precipitation extremes becoming more intense, wider, or both? An extreme-value statistics perspective.**  
Peng Zhong, Manuela Brunner, Raphaël Huser, and Thomas Opitz  
*In preparation*

**Partial tail correlation coefficient**  
Yan Gong, Peng Zhong, Raphaël Huser, and Thomas Opitz  
*In preparation*

**Joint modeling of massive spatio-temporal wildfire count and burnt area data with the INLA–SPDE approach**

Zhongwei Zhang, Elias Krainski, Peng Zhong, Håvard Rue and Raphaël Huser  
*In preparation*

**Teaching  
Experience**

**Teaching assistant, CEMSE (KAUST)** Fall, 2020  
STAT 250: Stochastic Processes  
Grading homework and exams; Giving tutorial; Q & A;

**Teaching assistant, Mathematics (SUSTech)** Spring 2017  
Real Analysis  
Grading homework and exams; Q & A;

**Industry  
Experience**

**CSMAR Database** Shenzhen, China  
Data Analyst (Intern) Summer 2016  
Data analysis; Data scraping; Present and review literature in Finance;

**Talks & Posters**

**Talk: Modeling non-stationary temperature maxima based on extremal dependence changing with event magnitude** 6, 2021  
Extreme Value Analysis 2021 (Virtual), UK

**Poster: Exact simulation of max-infinitely divisible processes** 5, 2021  
RESIM 2021: 13th International Workshop on Rare-Event Simulation, Paris, France (Virtual)

**Talk: Exact simulation of max-infinitely divisible processes** 2, 2021  
Virtual workshop on "Statistical Estimation and Detection of Extreme Hot Spots, with Environmental and Ecological Applications", KAUST, Saudi Arabia

**Talk: Modeling non-stationary temperature maxima based on extremal dependence changing with event magnitude** 2, 2021  
Virtual workshop on "Statistical Estimation and Detection of Extreme Hot Spots, with Environmental and Ecological Applications", KAUST, Saudi Arabia

**Contributed Talk: Modeling non-stationary temperature extremes with level-dependent extremal dependence** 8, 2020  
Joint Statistical Meetings (Virtual), USA

**Poster: Modeling spatial extremes with max-infinitely divisible models level-dependent extremal dependence** 7, 2019  
Joint Statistical Meetings, Denver, Colorado, USA

**Skills**

**Programming**

R, C++, Python, Shell, Slurm.

**Other**

Latex, Markdown, MS Office.

**Languages**

Mandarin, English

**Professional  
Memberships**

**American Statistical Association (ASA)**

Regular Member