



Martijn Peter Anton van den Ende

● WORK EXPERIENCE

01/09/2018 – 30/11/2024 Valbonne, France

POSTDOCTORAL RESEARCHER UNIVERSITÉ CÔTE D'AZUR, GÉOAZUR

Research topics:

- Distributed Acoustic Sensing
- Array processing
- Deep Learning
- Observational seismology
- Numerical earthquake modelling
- Rock mechanics

● EDUCATION AND TRAINING

01/02/2014 – 15/06/2018 Utrecht, Netherlands

DOCTORATE IN EARTH SCIENCES Utrecht University

2011 – 2013 Utrecht, Netherlands

MSC IN EARTH SCIENCES Utrecht University

Final grade Cum Laude

2008 – 2011 Utrecht, Netherlands

BSC IN EARTH SCIENCES Utrecht University

● HONOURS AND AWARDS

11/12/2024

Keiiti Aki Early Career Award – Americal Geophysical Union

2023

Editors' Citation for Excellence in Refereeing – Geophysical Research Letters

05/12/2024

Prix d'Excellence – Université Côte d'Azur

2023

Victoires de la Recherche – The city of Nice, France

2021

Outstanding Reviewer Award – Geophysical Journal International

2020

Editors' Citation for Excellence in Refereeing – Journal of Geophysical Research - Solid Earth

● PUBLICATIONS

2024

[**Sediment Corrections for Distributed Acoustic Sensing**](#)

Trabattoni A., Vernet C., van den Ende M.P.A., Baillet M., Potin B., Rivet D.

2023

[Kinematic rupture model of the February 6th 2023 Mw7.8 Turkey earthquake from a large set of near-source strong motion records combined by GNSS offsets reveals intermittent supershear rupture](#)

Delouis B., van den Ende M.P.A., Ampuero J.-P.

2023

[The sharp turn: Backward rupture branching during the 2023 Mw 7.8 Kahramanmaraş \(Türkiye\) earthquake](#)

Ding X., Xu S., Xie Y., van den Ende M.P.A., Premus J., Ampuero J.-P.

2023

[Spatial Deep Deconvolution U-Net for Traffic Analyses With Distributed Acoustic Sensing](#)

Yuan S., van den Ende M.P.A., Liu J., Noh H. Y., Clapp R., Richard C., Biondi B.

2023

[From strain to displacement: using deformation to enhance distributed acoustic sensing applications](#)

Trabattoni A., Biagioli F., Strumia C., van den Ende M.P.A., ... Stutzmann E.

2022

[Self-Supervised Velocity Field Learning for High-Resolution Traffic Monitoring with Distributed Acoustic Sensing](#)

Khacef Y., van den Ende M.P.A., Ferrari A., Richard C., Sladen A.

2022

[The launch of Seismica: a seismic shift in publishing](#)

Rowe, C., Agius M., Convers J., et al.

2022

[Deep Deconvolution for Traffic Analysis with Distributed Acoustic Sensing Data](#)

van den Ende M.P.A., Ferrari A., Sladen A., Richard C.

2022

[Deep Deconvolution Applied to Distributed Acoustic Sensing for Traffic Analysis](#)

van den Ende M.P.A., Ferrari A., Sladen A., Richard C.

2022

[Linking earthquake magnitude-frequency statistics and stress in visco-frictional fault zone models](#)

Beall A., van den Ende M.P.A., Ampuero J.-P., Capitanio F.A., Fagereng A.

2022

[Frictional sliding on brine-penetrated faults in salt](#)

Niemeijer A.R., van den Ende M.P.A., Marone C., Elsworth D., Spiers C.J.

2022

[Quantifying microseismic noise generation from coastal reflection of gravity waves recorded by seafloor DAS](#)

Guerin G., Rivet D., van den Ende M.P.A., Stutzmann E., Sladen A., Ampuero J.-P.

2022

[Experimental and Theoretical Constraints on Amino Acid Formation from PAHs in Asteroidal Settings](#)

Giese C.-C., ten Kate I.L., van den Ende M.P.A., et al.

2021

Next-Generation Traffic Monitoring with Distributed Acoustic Sensing Arrays and Optimum Array Processing

van den Ende M.P.A., Ferrari A., Sladen A., Richard C.

2021

[A Self-Supervised Deep Learning Approach for Blind Denoising and Waveform Coherence Enhancement in Distributed Acoustic Sensing Data](#)

van den Ende M.P.A., Lior I., Ampuero J.-P., Sladen A., Ferrari A., Richard C.

2021

[Evaluating seismic beamforming capabilities of Distributed Acoustic Sensing Arrays](#)

van den Ende M.P.A., and Ampuero J.-P.

2021

[Automatic mapping of fractures and faults in optical remote sensing images and Digital Surface Models with deep learning](#)

Mattéo L. et al.

2021

[Rapid response to the Mw 4.9 earthquake of November 11, 2019 in Le Teil, Lower Rhône Valley, France](#)

Cornou C. et al

2020

[Extracting microphysical fault friction parameters from laboratory- and field injection experiments](#)

van den Ende M.P.A., Scuderi M.M., Cappa F., and Ampuero J.-P.

2020

[The physics of fault friction: Insights from experiments on simulated gouges at low shearing velocities](#)

Verberne B.A., van den Ende M.P.A., Chen J., Niemeijer A.R., and Spiers C.J.

2020

[Automated seismic source characterization using deep graph neural networks](#)

van den Ende M.P.A., and Ampuero J.-P.

2020

[Rheological transitions facilitate fault-spanning ruptures on seismically active and creeping faults](#)

van den Ende M.P.A., Chen J., Niemeijer A.R., and Ampuero J.-P.

2020

[On the statistical significance of foreshock sequences in Southern California](#)

van den Ende M.P.A., and Ampuero J.-P.

2020

[Microphysical model predictions of fault restrengthening under room-humidity and hydrothermal conditions: from logarithmic to power-law healing](#)

Chen J., van den Ende M.P.A., and Niemeijer A.R.

2020

[The community code verification exercise for simulating sequences of earthquakes and aseismic slip \(SEAS\)](#)

Erickson et al.

2019

[An investigation into the role of time-dependent cohesion in interseismic fault restrengthening](#)

van den Ende M.P.A., and Niemeijer A.R.

2019

[Influence of grain boundary structural evolution on pressure solution creep rates](#)

van den Ende M.P.A., Niemeijer A.R., and Spiers C.J.

2018

[In situ nanoscale investigation of step retreat on fluoranthene crystal surfaces](#)

Giese C.-C., King H.E., van den Ende M.P.A., Plümper O., ten Kate I.L., and Tielens A.G.G.M.

2018

[Time-dependent compaction as a mechanism for regular stick-slips](#)

van den Ende M.P.A., and Niemeijer A.R.

2018

[A comparison between rate-and-state friction and microphysical models, based on numerical simulations of fault slip](#)

van den Ende M.P.A., Chen J., Ampuero J.-P., and Niemeijer A.R.

2018

[Investigating compaction by intergranular pressure solution using the Discrete Element Method](#)

van den Ende M.P.A., Marketos G., Niemeijer A.R., and Spiers C.J.

2017

[Shear localization in a mature mylonitic rock analogue during fast slip](#)

Takahashi M., van den Ende M.P.A., Niemeijer A.R., and Spiers C.J.