ICMNS 2019
June 24-26
COPENHAGEN

PROGRAMME
## Content

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**Notebook**
General info

Venue
The conference venue is in the North Campus of the University of Copenhagen.

Scientific programme
The scientific programme will be held at the Biocenter.

Address:  
Biocenter  
Ole Maaløes Vej 5  
2200 Copenhagen N

Plenary talks will take place in the Lundbeck Auditorium, parallel talks will take place in the Lundbeck Auditorium and in Room 4-0-24. The poster session will be hosted right next to the Lundbeck Auditorium.

Lunches
Lunch will be served in the cafeteria in the Biocenter.

Welcome reception
The Welcome reception on Monday at 17:00 will be hosted at the H. C. Ørsted Institute in the south end of the main hall on the ground floor.

Address:  
H. C. Ørsted Institute  
Universitetsparken 5  
2100 Copenhagen Ø

The H. C. Ørsted Institute is located in the North Campus of the University of Copenhagen and is within a 5 minutes walk from the Biocenter.

Conference dinner
The conference dinner will be held at Nørrebro Bryghus, approximately 1.5 km away from the conference venue in the direction towards the city centre.

Address:  
Nørrebro Bryghus  
Ryesgade 3  
2200 Copenhagen N
Name badge

Please keep your name badge with you at all times during the conference. Your badge is your ticket for lunch and for the conference dinner.

Internet

The University of Copenhagen is covered by Eduroam and by KU Guest wireless networks.

Eduroam
You can log on if you already have access to Eduroam from your home university.

KU Guest
1. Log on to the wireless network “KU Guest”.
2. Open a browser and follow the on-screen instructions.
3. You should receive an e-mail and a text message with the password. The account will work for 24 hours.

Useful phone numbers

Organizers:
Susanne Ditlevsen: +45 41 12 77 89
Jacob Østergaard: +45 20 69 95 08
Marie Levakova: +45 71 94 70 20

Taxi companies
DanTaxi: +45 48 48 48 48
TAXA 4x35: +45 35 35 35 35
4x27: +45 27 27 27 27

Emergency: 112

For more information and abstracts visit the conference website:
http://web.math.ku.dk/~susanne/ICMNS2019/
Maps

UCPH North Campus
Biocenter
Ole Maaløes Vej 5, ground floor
Conference dinner

Nørrebro Bryghus, Ryesgade 3
## Programme

### Programme overview

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<th>Time</th>
<th>Monday June 24</th>
<th>Tuesday June 25</th>
<th>Wednesday June 26</th>
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<tr>
<td>08:45-09:00</td>
<td>Welcome</td>
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<tr>
<td>09:00-10:30</td>
<td>Plenary talks</td>
<td>Plenary talks</td>
<td>Plenary talks</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
<td>Coffee break</td>
<td>Coffee break</td>
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<tr>
<td>11:00-12:35</td>
<td>Parallel talks</td>
<td>Parallel talks</td>
<td>Parallel talks</td>
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<tr>
<td>12:35-14:00</td>
<td>Lunch</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:35</td>
<td>Parallel talks</td>
<td>Poster session</td>
<td>Poster prize &amp; parallel talks</td>
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<tr>
<td>15:35-16:00</td>
<td>Coffee break</td>
<td>Coffee break</td>
<td>Coffee break</td>
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<tr>
<td>16:00-17:00</td>
<td>Plenary talks</td>
<td>Plenary talks</td>
<td>Plenary talks</td>
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<tr>
<td>17:00-19:00</td>
<td>Welcome reception</td>
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<td>Closing remarks</td>
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<tr>
<td>18:00-22:00</td>
<td>Conference dinner</td>
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### Monday, June 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:45-10:30</td>
<td><strong>Plenary session</strong>&lt;br&gt;(Lundbeck auditorium)&lt;br&gt;Chair: Andre Longtin</td>
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<tr>
<td>08:45-09:00</td>
<td>Opening remarks</td>
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<tr>
<td>09:00-10:00</td>
<td><strong>Keynote lecture</strong>&lt;br&gt;Nicolas Brunel&lt;br&gt;<em>Fixed point attractors, chaos and sequences in networks with unsupervised Hebbian plasticity rules</em></td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Carina Curto&lt;br&gt;<em>Dynamically relevant motifs in inhibition-dominated networks</em></td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00-12:35</td>
<td><strong>Parallel session I</strong>&lt;br&gt;(Lundbeck auditorium)&lt;br&gt;Chair: Erik Martens&lt;br&gt;<strong>Parallel session II</strong>&lt;br&gt;(Room 4-0-24)&lt;br&gt;Chair: Massimiliano Tamborrino</td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Emilie Soret&lt;br&gt;<em>Asymptotic behaviour of a network of neurons with random linear interactions</em></td>
</tr>
<tr>
<td>11:25-11:45</td>
<td>Romain Veltz&lt;br&gt;<em>Dynamics of a mean field limit of interacting 2D nonlinear stochastic spiking neurons</em></td>
</tr>
<tr>
<td>11:50-12:10</td>
<td>Samuel Muscinelli&lt;br&gt;<em>Shaping chaotic dynamics and signal transmission by single neuron properties in random neural networks</em></td>
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<tr>
<td>12:15-12:35</td>
<td>Tilo Schwalger&lt;br&gt;<em>Hazard rate approach to spiking neural networks with background noise</em></td>
</tr>
<tr>
<td>12:35-14:00</td>
<td>Lunch</td>
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<tr>
<td>Time</td>
<td>Parallel session I</td>
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<tr>
<td>14:00-15:35</td>
<td><strong>Parallel session I</strong> (Lundbeck auditorium) <strong>Chair: Antoni Guillamon</strong></td>
</tr>
</tbody>
</table>
| 14:00-14:20 | James MacLaurin  
*Wandering bumps in a stochastic neural field: a variational approach* | Lubomir Kostal  
*Coordinate invariance as a constraint on the mutual information decomposition* |
| 14:25-14:45 | Daniele Avitabile  
*This is not a bump* | Zachary Kilpatrick  
*Optimal evidence accumulation on social networks* |
| 14:50-15:10 | Priscilla Greenwood  
*Stochastic neural field with smoothed noise* | Roberto Barrio  
*Insect movement gaits: neuron model, CPG and pattern bifurcations* |
| 15:15-15:35 | Stephen Coombes  
*Pattern formation in biological neural networks with rebound currents* | Antonio E Teruel  
*Annihilation phenomenon in a PWL version of the FitzHugh-Nagumo system* |
| 15:35-16:00 | Coffee break | |
| 16:00-17:00 | **Plenary session** (Lundbeck auditorium) **Chair: Susanne Ditlevsen** | |
| 16:00-16:30 | Anton M. Unakafov  
*Strategies used by humans and monkeys in transparent coordination games* | |
| 16:30-17:00 | Guillaume Lajoie  
*Learning to control muscles with a brain-computer interface: a hierarchical and adaptive algorithm to optimally explore neural maps* | |
| 17:00-19:00 | Welcome reception  
(H. C. Ørsted Institute) | |
**Tuesday, June 25**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00-10:30</td>
<td><strong>Plenary session</strong>&lt;br&gt;(Lundbeck auditorium)&lt;br&gt;Chair: Susanne Ditlevsen</td>
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<tr>
<td>09:00-10:00</td>
<td>Keynote lecture&lt;br&gt;Stefan Treue&lt;br&gt;TBA</td>
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<tr>
<td>10:00-10:30</td>
<td>Rachel Nicks&lt;br&gt;<em>Clusters in nonsmooth oscillator networks</em></td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00-12:35</td>
<td><strong>Parallel session I</strong>&lt;br&gt;(Lundbeck auditorium)&lt;br&gt;Chair: Eva Löcherbach</td>
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<tr>
<td>11:00-11:20</td>
<td>Yoram Baram&lt;br&gt;<em>Circuit Polarity Effect of Cortical Connectivity, Activity and Memory</em></td>
</tr>
<tr>
<td>11:25-11:45</td>
<td>Rodica Curtu&lt;br&gt;<em>Using dynamic neural fields to examine loci of plasticity in supervised and unsupervised auditory category learning</em></td>
</tr>
<tr>
<td>11:50-12:10</td>
<td>Henrik Ekström&lt;br&gt;<em>Percolation on dynamical random graphs provides a model for defining synaptic connections</em></td>
</tr>
<tr>
<td>12:15-12:35</td>
<td>Leonid Rubchinsky&lt;br&gt;<em>Spike-timing-dependent plasticity effect on the patterns of neural synchrony</em></td>
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<tr>
<td>12:35-13:45</td>
<td>Lunch</td>
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<tr>
<td>13:45-14:00</td>
<td>Group photo</td>
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<tr>
<td>14:00-15:35</td>
<td>Poster session</td>
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<tr>
<td>15:35-16:00</td>
<td>Coffee break</td>
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<tr>
<td>16:00-17:00</td>
<td>Plenary session (Lundbeck auditorium)</td>
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<td>Chair: Wilhelm Stannat</td>
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<tr>
<td>16:00-16:30</td>
<td>Katie Morrison</td>
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<td>Emergent sequences from recurrent network motifs</td>
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<td>16:30-17:00</td>
<td>Peter Thomas</td>
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<td>Dissecting Molecular Contributions to Interspike Interval Variability</td>
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<td>in Conductance-Based Neural Models via Stochastic Shielding</td>
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<tr>
<td>18:00-22:00</td>
<td>Conference dinner at Nørrebro Bryghus</td>
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<tr>
<td>Time</td>
<td>Session</td>
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<td>10:00-10:30</td>
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<tr>
<td>11:00-12:35</td>
<td>Parallel session I (Lundbeck auditorium) Chair: Patricia Reynaud-Bouret</td>
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<td>Parallel session II (Room 4-0-24) Chair: Marie Levakova</td>
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<tr>
<td>11:00-11:20</td>
<td>Angelo Di Garbo Firing properties of a resonate-and-fire neural model with periodic forcing and noise</td>
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<tr>
<td>11:25-11:45</td>
<td>Anca Radulescu Predicting dynamics from hardwiring in canonical low-dimensional coupled networks</td>
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<tr>
<td>12:15-12:35</td>
<td>Aine Byrne A neural circuit model for learning a beat</td>
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<td>12:35-14:00</td>
<td>Lunch</td>
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<td><strong>Parallel session I</strong> (Lundbeck auditorium) <strong>Chair: Rodica Curtu</strong></td>
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| 14:25-14:45  | Fabian Pallasdies  
*Synfire Chain-Like Activity Underlies Swimming and Turning of the Scyphozoan Jellyfish Aurelia aurita*  
Bulcsu Sandor  
*The mathematics of self-organized neurobots* |
| 14:50-15:10  | Matias Calderini  
*Slow coordinated fluctuations in neural activity in a balanced cortical network*  
Manu Kalia  
*A biophysical model for the tripartite synapse under metabolic stress* |
| 15:15-15:35  | Selma Souihel  
*Anticipation in the retina and the primary visual cortex: towards an integrated retinocortical model for motion processing* |
| 15:35-16:00  | Coffee break                                                        |
| 16:00-17:00  | **Plenary session** (Lundbeck auditorium) **Chair: Andre Longtin**   |
| 16:00-16:30  | Kenneth Harris  
*High-dimensional geometry of population responses in visual cortex* |
| 16:30-17:00  | James Rankin  
*Periodic forcing of auditory bistability: modelling and experiments* |
| 17:00        | Closing remarks                                                     |
1. S. Goedeke, F. Y. K. Kossio, R.-M. Memmesheimer  
   *The cluster duration distribution of Hawkes processes*

2. R. Naud, A. Longtin  
   *Stochastic spike-diffuse-spike model of propagation in randomly demyelinated nerves*

3. P. Helson, E. Tanré, R. Veltz  
   *A mathematical analysis of memory lifetime in a simple network model of memory*

4. F. Darki, J. Rankin  
   *Mixed-mode oscillations and chaotic dynamics in a model of rivalry*

5. Q. Cormier, E. Tanré, R. Veltz  
   *Long time behavior of a mean-field model of interacting neurons*

6. E. Camacho, A. Radulescu, Stephen Wirkus  
   *Bifurcation analysis of a photoreceptor interaction model for Retinitis Pigmentosa*

7. G. D’Onofrio, P. Lansky, M. Tamborrino  
   *On diffusion neuronal models with multiplicative noise*

   *TMS-induced synchronisation in human brain networks*

9. P. Lima, D. Avitabile, S. Coombes  
   *Numerical investigation of a neural field model including dendritic processing*
<table>
<thead>
<tr>
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</table>
| **10. L. Pérez, R. Barrio, S. Ibáñez**  
*Homoclinic organization in fold/hom bursters: the Hindmarsh-Rose model* |
| **11. A. Meddah**  
*Mathematical modelling of low grade glioma diffusion* |
| **12. E. Baspinar, G. Citti, A. Sarti**  
*A sub-Riemannian model of the visual cortex based on frequency-phase and its applications* |
| **13. A. Radulescu, C. Williams, A. Scimemi**  
*Geometry-based estimates of glutamate transporter density in astrocytes* |
| **14. B. Jüttner**  
*Chimera states in two-population network of theta-neurons* |
| **15. D. Todorov, Wilson Truccolo**  
*Runaway excitation-like behavior in networks of PPGLM-type spiking neurons* |
| **16. S. Petros, D. Avitabile, S. Coombes, S. Sotiropoulos, P. Houston**  
*The Numerical solution of neural field models posed on realistic cortical domains* |
| **17. V. Schmutz, W. Gerstner, T. Schwalger**  
*Mesoscopic population equations for spiking neural networks with synaptic short-term plasticity* |
| **18. G. Ascione, E. Pirozzi, B. Toaldo**  
*Exit time of semi-Markov processes and neuronal models* |
| **19. A. Cocks, S. Coombes, A. Johnston, D. Avitabile**  
*Understanding sensory induced hallucinations: From neural fields to amplitude equations* |
*Predictive coding and behavioural flexibility during probabilistic decision-making: multi-neuronal, multi-area, electrophysiological investigations of the macaque prefrontal cortex*

21. **K. Sawada, Y. Shimada, T. Ikeguchi**
*Estimation of connections between neurons only from inter-spike-interval*

22. **I. Tubikanec, M. Tamborrino, E. Buckwar**
*Spectral density-based and structure-preserving Approximate Bayesian Computation for partially observed SDEs with an invariant measure: A demonstration on the Jansen and Rit neural mass model and the FitzHugh-Nagumo Model*

23. **E. Buckwar, M. Ouafoudi**
*Stochastic approach to the modeling of sweet taste signaling*

24. **N. Schieferstein, R. Kempter**
*Towards a reduced model of ripple oscillations in recurrent inhibitory networks*

25. **C. Langdon, K. Morrison, C. Curto**
*Threshold-linear networks and mutations of oriented matroids*

*Effects of excitatory/inhibitory neuron ratio on neural activities and network structures*

*A stochastic model of postsynaptic plasticity based on dendritic spine Ca^{2+} downstream proteins*

28. **S. A. Campbell, M. Chugunova**
*Application of the mathematical model for autocrine regulation with diffusive signalling agent to GnRH neurons synchronization*

29. **W. Wojtak, E. Bicho, W. Erlhagen**
*Neural field model of matching law behavior*
30. **C. Zucca, A. Civallero, L. Sacerdote**  
*The two compartment leaky integrate-and-fire neuronal model related to a one compartment integrate-and-fire model and the Gamma renewal process*

31. **L. Lemaire, M. Desroches, O. Faugeras, M. Krupa, M. Mantegazza**  
*Modeling the initiation of cortical spreading depression triggered by the hyper-activity of GABAergic neurons*

32. **J. Kobbersmed, A. Grasskamp, A. Walter, S. Ditlevsen, J. B. Sørensen**  
*Stochastic simulation of synaptic facilitation in Drosophila neuromuscular junction*

33. **Y. Wang, J. Gill, H. Chiel, P. Thomas**  
*Shape versus timing: linear responses of a limit cycle with hard boundaries under instantaneous and static perturbation*

34. **M. Schünemann, U. Ernst, M. Keßeböhmer**  
*Exact avalanche distributions for inhomogeneous networks of non-leaky integrate and fire neurons*

35. **M. B. Raad, S. Ditlevsen, E. Löcherbach**  
*Age Dependent Hawkes Process*

36. **O. Brandibur, E. Kaslik**  
*Fractional-order versions of neuronal models*

37. **E.-A. Kokovics, E. Kaslik, A. Radulescu**  
*Wilson-Cowan neuronal interaction models with distributed delays*
### List of participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
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<tbody>
<tr>
<td>Naomi Auer</td>
<td>Humboldt-Universität zu Berlin</td>
</tr>
<tr>
<td>Daniele Avitabile</td>
<td>University of Nottingham</td>
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<tr>
<td>Yoram Baram</td>
<td>Technion - Israel Institute of Technology</td>
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<tr>
<td>Roberto Barrio</td>
<td>University of Zaragoza</td>
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<tr>
<td>Emre Baspinar</td>
<td>INRIA Sophia Antipolis</td>
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<tr>
<td>Sophia Becker</td>
<td>Goethe-University Frankfurt, MPI Brain Research</td>
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<tr>
<td>Rune Berg</td>
<td>University of Copenhagen</td>
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<tr>
<td>Erica Boschin</td>
<td>University of Oxford</td>
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<tr>
<td>Oana Brandibur</td>
<td>West University of Timisoara</td>
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<tr>
<td>Wilhelm Braun</td>
<td>University of Bonn</td>
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<tr>
<td>Nicolas Brunel</td>
<td>Duke University</td>
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<tr>
<td>Evelyn Buckwar</td>
<td>Johannes Kepler University Linz</td>
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<tr>
<td>Aine Byrne</td>
<td>New York University</td>
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<tr>
<td>Matias Calderini</td>
<td>University of Ottawa</td>
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<tr>
<td>Bruno Cessac</td>
<td>Inria</td>
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<tr>
<td>Marina Chugunova</td>
<td>University of Waterloo</td>
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<tr>
<td>Abigail Cocks</td>
<td>University of Nottingham</td>
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<tr>
<td>Blake Cook</td>
<td>University of Exeter</td>
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<td>Stephen Coombes</td>
<td>University of Nottingham</td>
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<tr>
<td>Quentin Cormier</td>
<td>Inria</td>
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<tr>
<td>Carina Curto</td>
<td>The Pennsylvania State University</td>
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<tr>
<td>Rodica Curtu</td>
<td>The University of Iowa</td>
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<tr>
<td>Giuseppe D’Onofrio</td>
<td>University of Turin</td>
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<tr>
<td>Farzaneh Darki</td>
<td>University of Exeter</td>
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<tr>
<td>Nils Detering</td>
<td>University of California Santa Barbara</td>
</tr>
<tr>
<td>Angelo Di Garbo</td>
<td>CNR - Institute of Biophysics</td>
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<tr>
<td>Susanne Ditlevsen</td>
<td>University of Copenhagen</td>
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<td>Michael Forrester</td>
<td>University of Nottingham</td>
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<tr>
<td>Sven Goeddeke</td>
<td>University of Bonn</td>
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<tr>
<td>Vasilii Goriachkin</td>
<td>Lund University</td>
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<tr>
<td>Priscilla Greenwood</td>
<td>University of British Columbia</td>
</tr>
<tr>
<td>Claudius Gros</td>
<td>Goethe University Frankfurt</td>
</tr>
<tr>
<td>Antoni Guillamon</td>
<td>Universitat Politecnica de Catalunya</td>
</tr>
</tbody>
</table>
Linnéa Gyllingberg  
Uppsala University

Kenneth Harris  
University College London

Pascal Helson  
INRIA

Gemma Huguet  
Universitat Politecnica de Catalunya

Tohru Ikeguchi  
Tokyo University of Science

Skirmantas Janusonis  
University of California, Santa Barbara

Kresimir Josic  
University of Houston

Benjamin Jüttner  
Technical University of Denmark

Manu Kalia  
University of Twente

Zachary Kilpatrick  
University of Colorado Boulder

Ryota Kobayashi  
National Institute of Informatics

Janus Rønn Lind Kobbersmed  
University of Copenhagen

Lubomir Kostal  
Institute of Physiology CAS

Nataliya Kraynyukova  
Max Planck Institute for Brain Research

Emanuel-Attila Kokovics  
West University of Timisoara

Guillaume Lajoie  
Université de Montréal

Christopher Langdon  
Pennsylvania State University

Louisiane Lemaire  
Inria Sophia Antipolis

Marie Levakova  
University of Copenhagen

Pedro Lima  
University of Lisbon

Henrik Lindén  
University of Copenhagen

Andre Longtin  
University of Ottawa

Eva Löcherbach  
Université Paris 1 Panthéon Sorbonne

James MacLaurin  
New Jersey Institute of Technology

Erik Andreas Martens  
Technical University of Denmark

Victor Matveev  
New Jersey Institute of Technology

Amira Meddah  
Johannes Kepler University Linz

Nanfu Miya  
Tokyo University of Science

Sunil Modhara  
University of Nottingham

Katie Morrison  
University of Northern Colorado

Samuel Muscinelli  
EPFL SV & IC LCN

Rachel Nicks  
University of Nottingham

Andrew Oster  
Eastern Washington University

Maryeme Ouafoudi  
Johannes Kepler University Linz

Fabian Pallasdies  
University of Bonn

Morten Gram Pedersen  
University of Padova

Lucia Pérez  
University of Oviedo

Sammy Petros  
University of Nottingham

Tien Cuong Phi  
University of Nice

Bastian Pietras  
BCCN Berlin & TU Berlin
Participants

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Mads Raad University of Copenhagen
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