

# New Directions for Learning with Kernels and Gaussian Processes — Program —

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**Sun, 27 Nov Arriving**

15:00–20:00 **arrival**  
20:00–21:00 Opening Remarks & Introductions

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**Mon, 28 Nov Looking back and forward**

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07:30–08:45	<b>breakfast</b>	
09:00–09:30	Bernhard Schölkopf	<b>Introductory Talks</b>
09:40–10:10	Arthur Gretton	
10:10–10:50	<b>discussion &amp; break</b>	
10:50–11:20	Raquel Urtasun	<b>Introductory Talks</b>
11:30–12:00	Neil Lawrence	
12:15–14:00	<b>lunch break</b>	
14:00–14:30	Carl Rasmussen	<b>Introductory Talks</b>
14:40–15:10	Philipp Hennig	
15:10–15:30	<b>discussion</b>	
15:30–16:00	<b>coffee &amp; cake</b>	
16:00–17:45	<b>content discussion (plenary)</b>	opportunity to propose contributions
from 18:00	<b>dinner / open end</b>	

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**Tue, 29 Nov A Deep Story**

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07:30–08:45	<b>breakfast</b>	
09:00–09:20	Carl Johann Simon-Gabriel	<b>Probability Measures as Inputs and Outputs</b>
09:20–09:40	Dino Sejdinovic	
09:40–10:00	Mark v.d. Wilk	
10:00–10:20	Iliya Tolstikhin	
10:20–11:00	<b>coffee break</b>	
11:00–11:30	J.-Miguel Hernández Lobato	<b>Deep Kernels I</b>
11:30–12:00	David Duvenaud	
12:00–14:00	<b>lunch break</b>	
14:00–14:30	Julien Mairal	<b>Deep Kernels II</b>
14:30–15:00	Florence d’Alché Buc	
15:00–15:30	Ingo Steinwart	
15:30–16:00	<b>coffee &amp; cake</b>	
15:50–16:10	Neil Lawrence	
16:10–16:30	Mark Deisenroth	
16:30–17:00	James Hensman	<b>Solving the Software Challenge</b>
17:00–17:30	Frank Hutter	
17:30–18:00	Roman Garnett	
from 18:00	<b>dinner / open end</b>	

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**Wed, 30 Nov Challenges & Applications**

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07:30–08:45 **breakfast**  
09:00–09:30 Sebastian Novozin  
09:30–10:00 Steven Roberts  
10:00–10:30 Manfred Opper  
10:20–11:00 **coffee break**  
11:00–12:00 **discussion**  
12:00 **group picture**  
12:00–14:00 **lunch break**  
14:00–17:00 **excursion**  
17:00–17:30 **preparation of group discussion**  
17:30–18:00 David Lopez-Paz  
from 18:00 **dinner / open end**

**Generating and Approximating**

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**Thu, 1 Dec Scaling up and Catching Speed**

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07:30–08:45 **breakfast**  
09:00–09:30 Simo Särkkä  
09:30–10:00 Krikamol Muandet  
10:00–10:30 Zoltán Szabó  
10:30–11:00 **coffee break**  
11:00–11:30 Barath Sriperumbudur  
11:30–12:00 Richard Wilkinson  
12:00–14:00 **lunch break**  
14:00–15:30 **group discussions I**  
14:00–15:30 *Session Ia:* Room S.003  
14:00–15:30 *Session Ib:* Wappensaal  
15:30–16:00 **coffee & cake**  
16:00–17:30 **group discussions II**  
16:00–17:30 *Session IIa:* Wappensaal  
16:00–17:30 *Session IIb:* Oval Office  
16:00–17:30 *Session IIc:* Room S.003  
17:30–18:00 Carl Rasmussen  
from 18:00 **dinner / open end**

**Scaling up Kernel Inference**

**Inference**

Generative Models  
Limitations of GPs / non-G-Processes

The separation between Kernels/GPs and Deep Learning  
Methods/Models for Large Datasets (big- $N$ , big- $D$ )  
Connections and Differences between Kernels and GPs

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**Fri, 2 Dec On to new Shores**

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07:30–08:45 **breakfast**  
09:00–09:30 Motonobu Kanagawa  
09:30–10:00 Group Discussion Reports I  
10:00–11:00 **coffee break**  
11:00–11:30 Group Discussion Reports II  
11:30–12:00 Summary and Concluding Remarks  
12:00–14:00 **lunch & departure**