

Random Matrix Theory: Applications in the Information Era, 2019, Kraków

29.04 18.30- 21.30 Get together (J. Czapski Pavilion, Piłsudskiego 13 (courtyard), see the map)

30.04 09.30-10.00 Registration

10.00-10.15 Opening

10.15-11.00 R. Kühn – *A random walk perspective of search and network exploration*

11.00-11.30 Coffee break (all coffee breaks at the venue)

11.30-12.15 W. Tarnowski – *Non-orthogonal eigenvectors in models of continuous time RNN*

12.15-13.00 P. Warchoń – *Random matrix theory and the initialization of the resnets*

13.00-15.00 Lunch (all lunches at the venue)

15.00-15.45 F. Benaych-Georges – *Cross-covariance matrices estimation*

15.45-16.30 D. Ghoshdastidar – *Hypothesis testing for graphs: fundamental limits and practical methods*

16.30-17.00 Coffee break

17.00-17.30 J. Ochab – *Equal-time and lagged correlations in human EEG*

17.30-18.00 Z. Drogosz – *Comparison of eigeninference based on one- and two-point Green's functions*

18.00-18.20 M. Wiercioch (poster) – *Detection and characterization of active compounds based on RMT*

01.05 09.30-10.15 G. Caire – *Channel covariance estimation and Uplink-Dowblink Transformation for FDD Massive MIMO*

10.15-11.00 T. Rogers – *Sparse and non-Hermitian random matrix theory*

11.00-11.30 Coffee break

11.30-12.15 M. Chiani – *On the distribution of an arbitrary subset of the eigenvalues for finite dimensional random matrices*

12.15-13.00 G. Alfano – *Random Vandermonde matrices in the performance analysis of millimeter-wave multiantenna systems*

13.00-15.00 Lunch

Free afternoon

19.00 Conference dinner

(restaurant Biała Róża, Straszewskiego 16, see the map)

02.05 09.30-10.15 G. Akemann – *Determinantal structure of eigenvector correlations in the complex Ginibre ensemble*

10.15-11.00 Z. Liao – *Recent advances in random matrix theory for modern machine learning*

11.00-11.30 Coffee break

11.30-12.15 M. Oppen – *Random matrix theory and the dynamics of expectation propagation*

12.15-13.00 Lunch

13.00-15.00 Visit to Collegium Maius Museum (at the venue)
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15.00-15.45 A. Saxe – *High dimensional dynamics of generalization error in neural networks*

15.45-16.30 L. Benigni – *Eigenvalues of non-linear matrix models*

16.30-17.00 Coffee break

17.00-17.30 M. Banna – *Operator-valued matrices with exchangeable entries: Applications to random block matrices*

17.30-18.00 P. Sierant – *Fidelity susceptibility in Gaussian random ensembles*

03.05 09.30-10.15 Y. Fyodorov – *On reconstructing nonlinearly encrypted signals corrupted by noise*

10.15-11.00 Z. Burda – *Universality of random matrix dynamics*

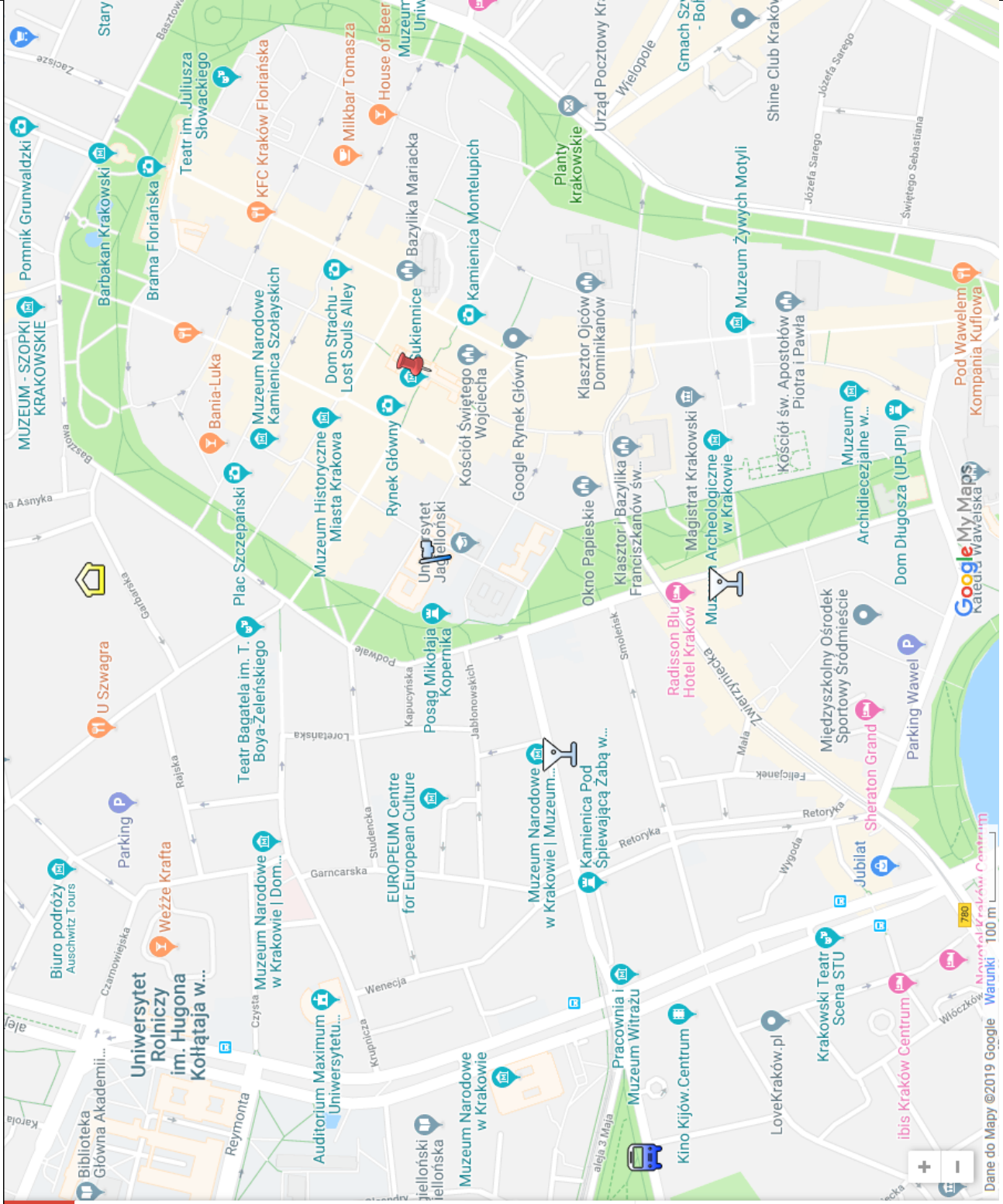
11.00-11.30 Coffee break

11.30-12.15 L. Sagun – *Over-parametrization in neural networks: an overview and a definition*


12.15-12.45 W. Yang – *Local law and Tracy-Widom limit for sparse stochastic block matrices*

12.45-13.00 Closing

13.00-14.45 Lunch



 The St. Pigoń Guest House

 Conference dinner (1st May, 7pm) Restaura...

 Get together (29th April, 6.30 pm) The Joze...

 Collegium Maius

Important information:

1. Accommodation (breakfasts included) of all invited guests of the conference:
S. Pigoń Visiting Professors' House, 7 Garbarska Street
http://www.dg.uj.edu.pl/en_GB/garbarska
Upon arrival, just mention the name of the conference.
2. Get together event - The Jozef Czapski Pavilion, 13 Piłsudskiego Street,
29.04, 18.30-21.30
<https://mnk.pl/branch/the-jozef-czapski-pavilion>
Walking distance from the hotel (10-15 minutes).
3. Venue – Collegium Maius UJ, 15 Jagiellońska Street,
(Lectures, coffee breaks, lunches, visit to the museum)
https://maius.uj.edu.pl/en_GB/start
Walking distance from the hotel (5-10 minutes).
4. Conference dinner – Restaurant Biała Róża (White Rose, 31 Straszewskiego Street),
01.05.2019, 19.00
<https://www.restauracjabialarozap.pl/en/>
Walking distance from the venue (5 minutes).