WELCOME
TO THE PSYCHOLOGICAL NETWORKS
AMSTERDAM SUMMER SCHOOL 2017

August 28 – September 1, 2017

#PNASS2017
Summary

This summer school will focus on both theoretical foundations of network psychometrics, as well as on modeling techniques developed from this perspective. The summer school will consist of plenary lectures and computer practicals. After completing this summer school you will be able to 1) understand the theoretical foundations behind network modeling, 2) infer network topology and estimate network parameters from different sources of data, and 3) analyze the network structure and its stability.

Target Audience

This summer school is meant for researchers who want to apply network analysis in practice. Some basic knowledge of R is an advantage (but not required!) because we will use R for the computer practicals in this course. We will also provide a basic introduction of R.
Travel & Venue

Amsterdam is well serviced by (international) trains and planes. From the airport there is a high frequency train to Amsterdam Central Station, and the journey takes approximately 15 minutes. From Amsterdam Central Station, there is a subway to the venue: Take any subway line and get off at Weesperplein. From Weesperplein it is a 5-minute walk to the venue.

The Psychological Networks Amsterdam Summer School is held at the Roeterseiland Campus of the University of Amsterdam, in the Psychology Department.

Address: Faculty of Social and Behavioral Sciences (G Building), Room 2.01 (Monday, Wednesday, Thursday, Friday), Room -1.09 (Tuesday)
Nieuwe Achtergracht 129-B, Amsterdam

Public transport: Subway station Weesperplein (from Amsterdam Central train station), Tram station Weesperplein, lines 7 & 10 (for transport from and to for example Leidseplein and Museum quarter).

Since the G Building is not always easy to find, we arranged a meeting point at 8:45am on Monday at Café Kriterion, located at Roetersstraat 170, in order to show you the way to the lecture room (you can of course also come on your own directly at the location). In case you are late or have trouble finding the location you can contact Ria Hoekstra at +31623032613. We will also have drinks at this location on Monday after the lectures at 5pm (see location on interactive map as Monday Drinks).

Public transport information:
http://maps.gvb.nl/en
Interactive Map

For an interactive map including summer school locations and social events, recommended restaurants, cafes and hotels, neighbourhood and travel, as well as touristic sites please follow the link: http://psychosystems.org/pnass2017/map

The map below includes all the locations relevant for the summer school, as well as the metro and tram stops close to the venue(s).
Summer School Dinner at De Ysbreeker.

The summer school dinner will take place on Thursday August 31st at De Ysbreeker, located at Weesperzijde 23, 1091 EC, Amsterdam (see location on interactive map as Thursday Dinner). If you have not already done so, please let us know your choice of dishes and drinks using this link: http://bit.ly/2wkea7j.

*** Starter ***

**Gazpacho andaluz.** with parsley oil, croutons, granite of cucumber

**“Zure zult”.** with gel from gherkin from ‘Diny schouten’

**Fattoush salad.** eggplant, zucchini, pomegranate, argula, crispy tortilla, fresh mint, cherry tomato and spring onion

**Smoked salmon.** marinated with v2c gin & tonic, fresh celery salad, sweet & sour cucumber and cardamom mayonnaise

*** Main Course ***

**Grilled aberdeen angus rib-eye.** with béarnaise, fries & green salad

**Cod fillet.** with artichoke barigoule, carrots, fennel, bacon, spring onions and creamy roseva

**White wine risotto.** mushrooms, parmesan and truffle sauce

**Steak tartare préparé.** poached egg, green salad, toast or fries

*** Dessert ***

**Choice of coffee**

**Crème brûlée.** with ginger and lime leaf

**Raspberry cheesecake.** from ‘holtkamp’ with a scoop of vanilla icecream

**Strained yogurt.** with vanilla and red fruit
### Schedule Psychological Networks Amsterdam Summer School 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday 28/8, Room 2.01</th>
<th>Tuesday 29/8, Room -1.01</th>
<th>Wednesday 30/8, Room 2.01</th>
<th>Thursday 31/8, Room 2.01</th>
<th>Friday 1/9, Room 2.01</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 09:15</td>
<td><strong>COFFEE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jonas Dalege</td>
<td>Riet van Bork</td>
<td>Eiko Fried</td>
<td>Sacha Epskamp</td>
<td>Sacha Epskamp &amp; Jonas Haslbeck</td>
</tr>
<tr>
<td>11:15 - 12:30</td>
<td>Practical</td>
<td>Practical</td>
<td>Practical</td>
<td>Practical</td>
<td>Work on own data</td>
</tr>
<tr>
<td>12:30 - 13:45</td>
<td><strong>LUNCH BREAK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:45 - 15:45</td>
<td>Introduction &amp; Theoretical Foundation of Network Analysis</td>
<td>Markov Random Fields 1: Gaussian Graphical Models &amp; Ising Models</td>
<td>Directed Acyclic Graphs (DAGs)</td>
<td>Time Series Modeling 2</td>
<td>Work on own data</td>
</tr>
<tr>
<td></td>
<td>Eiko Fried</td>
<td>Sacha Epskamp</td>
<td>Lourens Waldorp</td>
<td>Jonas Haslbeck</td>
<td></td>
</tr>
<tr>
<td>15:45 - 17:00</td>
<td>Practical</td>
<td>Practical</td>
<td>Practical</td>
<td>Practical</td>
<td>Q &amp; A session</td>
</tr>
<tr>
<td></td>
<td>17:00</td>
<td></td>
<td></td>
<td>Dinner at De Ysbreeker</td>
<td></td>
</tr>
</tbody>
</table>

- **Monday, 28/8, Room 2.01**
- **Tuesday, 29/8, Room -1.01**
- **Wednesday, 30/8, Room 2.01**
- **Thursday, 31/8, Room 2.01**
- **Friday, 1/9, Room 2.01**
Day 1: Monday, August 28

In the morning, we will guide participants from Kriterion to the workshop location at 08:45.

**Morning session: Introduction to R**
*Lecturer: Jonas Dalege*

_N.B.: Please install the most recent versions of R and R-studio before arriving at the summer school. In addition, please note this session is optional and aims to give basic knowledge in R programming._


**Practice:**
- Datacamp: [https://www.datacamp.com/](https://www.datacamp.com/)

Afternoon session: Introduction, Theoretical Foundation of Network Analysis & Plotting Networks
*Lecturer: Eiko Fried*


**Introduction drinks**
After the first day of the workshop, we will have introduction drinks at Kriterion.
Day 2: Tuesday, August 29

Morning session: Causality & Philosophy of Science  
Lecturer: Riet van Bork  
Location: Room -1.09

- Pearl introduction: http://bit.ly/2vaju9t  
- Pearl Epilogue: http://bit.ly/2vlnljj  
- D-separation: http://bit.ly/2v2kKj4

Afternoon session: Markov Random Fields 1: Estimating Gaussian Graphical Models & Ising Models  
Lecturer: Sacha Epskamp  
Location: Room -1.09

Day 3: Wednesday, August 30

Morning session: Markov Random Fields 2 – Centrality, Replicability & Challenges
Lecturer: Eiko Fried
Location: Room 2.01


Afternoon session: Directed Acyclic Graphs (DAGs)
Lecturer: Lourens Waldorp
Location: Room 2.01

• Bnlearn website: http://www.bnlearn.com/
Day 4: Thursday, August 31

Morning session: Time Series Modeling 1
Lecturer: Sacha Epskamp
Location: Room 2.01


Afternoon session: Time Series Modeling 2
Lecturer: Jonas Haslbeck
Location: Room 2.01


Dinner
There will be a dinner at the Ysbreker at 18:00. Please fill in the online menu form using this link [http://bit.ly/2wkea7j](http://bit.ly/2wkea7j) as soon as possible! **Guests can be invited to the dinner for an extra cost of 55 euro per person.** Please contact us in this case and let the guest fill in the menu form separately.
Day 5: Friday, September 1

Morning session: Symposium – State of the Art
Lecturers: Sacha Epskamp, Oisín Ryan & Jonas Haslbeck
Location: Room 2.01


Afternoon session: Work on own data and Q&A session
Location: Room 2.01
Accommodation

The following hotels have special rates for the PNASS, see details at each hotel. Please note all prices are for one night.

**Hotel Arena**
*Close to the venue*
Special rate: 115€, breakfast and tourist tax excluded.
Bookings can be made on the hotel website [http://www.hotelarena.nl/](http://www.hotelarena.nl/) using the discount code CORA-EX.

**Hotel Allure**
*Close to the venue*
Special rate: 10% discount on the online rates of the hotel.

**Hotel Hyatt Regency**
*Very close to the venue*
Special rate: 200€ excluding breakfast and 5% city tax and 220€ including breakfast, excluding 5% city tax (based on single occupancy). Bookings can be made on the hotel website [http://amsterdam.regency.hyatt.com](http://amsterdam.regency.hyatt.com) using the discount code CR82751.

Other hotels located within walking distance to the venue:

**Volks Hotel**
Bookings can be made on the hotel website: [https://www.volkshotel.nl/en/](https://www.volkshotel.nl/en/)

**Amstel Corner**
Eating and Dining in Amsterdam

For a detailed map of these locations, please see the interactive map at [http://psychosystems.org/pnass2017/map](http://psychosystems.org/pnass2017/map).

**Groceries**

The cheapest way of eating is to cook your own food. Amsterdam is packed with medium sized supermarkets supplying you with any groceries you might need. The most popular chain is called **Albert Heijn**, of which one is located right next to the university on Sarphatistraat 141K. Note, like in most shops in the Netherlands, you cannot pay by credit-card here!

**Around the university**

The campus is located in a central location of the city, right next to the touristic zoo. In the surrounding area there are several restaurants. The **Roeterstraat**, on which the campus is located, is a common stop for students to drink and eat. For dinner, you can find the cosy bar **De Roeter**, which has great burgers (but also other dishes), a wide selection of pizza at **Torino’s**, and cheese-fondue at **Aguada**. Furthermore, the movie theater **Kriterion** offers a good selection of beers and movies, and the chain **Bagels and Beans** offers good coffee and breakfast/lunch. Heading down to the Zoo leads you to the **Plantage Kerklaan**, another area where you can find several restaurants. Right on the corner you will find **Pizzabakkars**, with great pizzas on a nice terrace (*if* it is sunny). Further down the street you will find good Japanese food in **Tempura** and great burgers in **Burgermeester**. You will also find a bakery (**Rooth**) here and a good cup of coffee in the **Coffee Company**.
Further into the City

The campus is conveniently located near Weesperplein, which connects metro to tram lines. Take tram 7 or 10 in the Western direction to get to Leidseplein. Here you will find plenty of bars, nightlife and restaurants. Both the Korte Leidsedwarsstraat and Lange Leidsedwarsstraat are packed with (a bit touristic and overpriced) restaurants. The closest area we have to a Chinatown in Amsterdam is the area between Nieuwmarkt and Central Station. Take the metro to Nieuwmarkt, and head down Zeedijk for plenty of restaurants from all over the world.

Dutch Food

There is little that classifies as “traditional Dutch food”, and even less restaurants dedicated to such food. For traditional food, we can recommend Hap-Hmm on the Eerste Helmersstraat (close to Leidseplein). Furthermore, a must-have are Dutch pancakes or poffertjes (often, erroneously, called small pancakes). These can be found in De Carrousel. Both these restaurants close around 20:00 so be early! For other typical Dutch experiences, head into a snackbar (e.g., Cantarell at Weesperplein) and order a “patatje oorlog” or a “kroket”, or order a “bittergarnituur” (or “bitterballen”) with any beer you drink in almost any bar (highly recommended in De Roeter). Additionally, you can eat some Kebab (Try Leeman Döner on the Van Woustraat).
Organizers: Adela Isvoranu & Sacha Epskamp
on behalf of the Psychosystems Lab Group