

Big Faculty Meeting

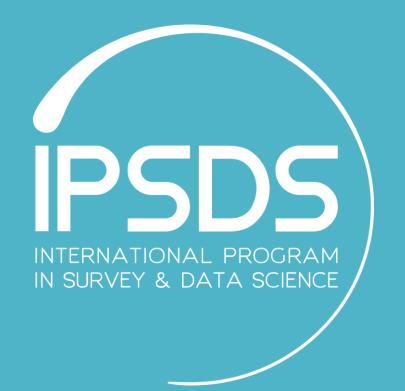
October 24, 2019

Agenda

- 1. Report on 2018/2019 activities
- 2. Course schedule 2020
- 3. Update on IPSDS sustainability efforts
- 4. Networking opportunity for faculty
- 5. Instructional support + tools







Report on 2018/2019 activities

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Admitted 3rd and 4th cohort (17 and 15 participants)





IPSDS (Test) Cohorts 1-4

58 Participants
 (31 f + 27 m)

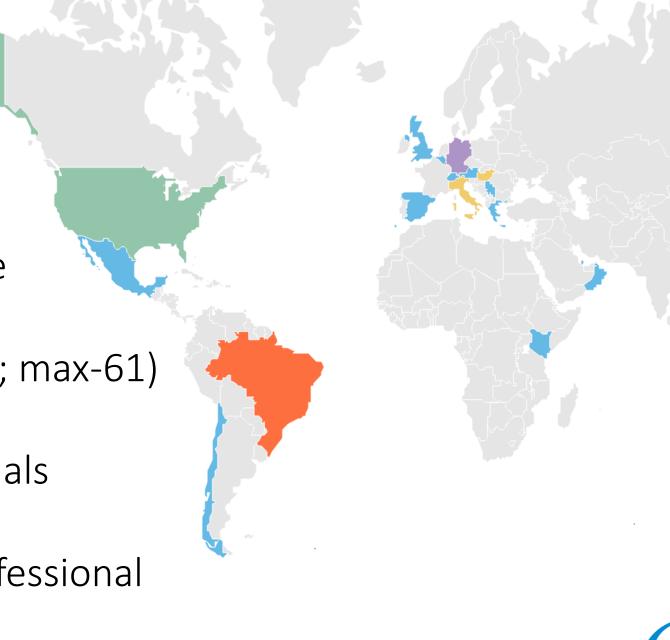


• Age: median=31 (min-22; max-61)

• 100% working professionals

Diverse educational/ professional backgrounds







Cohorts 1-4 (Connect@IPSDS 2016-2019)











Report on 2018/2019 activities

Admitted 3rd and 4th cohort (17 and 15 participants)

Events:

Connect@IPSDS and

Women in Data Science





Connect@IPSDS



WiDS 2018 and 2019



Report on 2018/2019 activities

Admitted 3rd and 4th cohort (17 and 15 participants)

 Events: Connect@IPSDS and Women in Data Science in 2018 and 2019

 Development of Data Science courses, Project consulting course with real data and clients and Certificate Program





Data Output/Access

utput/Access 6 ECT

Data Analysis

Data
Curation/Storage

Data Generating Process

Research Question min.
3 credits/
6 ECTS

Ethics 1 credit/2 ECTS Data
Confidentiality and
Statistical
Disclosure Control
2 credits/4 ECTS

Visualization I-II 1 credit/2 ECTS each

Privacy Law 1 credit/2 ECTS

min.
6 credits/
12 ECTS

Generalized Linear Models 2 credits/3 ECTS Analysis of Complex Data I-III 1 credit/2 ECTS each

Text Analysis I-II 1 credit/2 ECTS each Machine Learning
I-III
1 credit/2 ECTS
each

min.
3 credits/
6 ECTS

Introduction to Python and SQL 1 credit/2 ECTS

Data Munging I-III 1 credit/2 ECTS each

New Data Science courses

min.
4 credits/
8 ECTS

Data Collection Courses 1 credit/2 ECTS each

Record Linkage 1 credit/2 ECTS Practical Tools for Sampling and Weighting 3 credits/6 ECTS Applied Sampling
I-III
1 credit/2 ECTS
each

Web Scraping 1 credit/2 ECTS

min.
3 credits/
6 ECTS

Fundamentals of Survey and Data Science 3 credits/6 ECTS



Total: 75 ECTS (15 ECTS Master thesis/colloquium)

http://survey-data-science.net/

Certificate Program

12-credit online program, required courses + electives, < 2 years

- Certificate in Fundamentals of Survey Methodology
- (Fundamentals, Sampling I, Questionnaire Design + Electives)
- Certificate in Fundamentals of Survey Statistics
- (Fundamentals, Sampling I, Inference from Complex Surveys + Electives)
- Certificate in Fundamentals of Data Science

(Fundamentals, Intro to Big Data and ML, Intro to Python/SQL, Web Scraping and APIs, Intro to Data Visualization, Privacy Law + Electives)





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Lessons learned





Lessons Learned – Students Perspective

- > 3 to 5 years to complete the program if working full time
- Workload management is a challenge for many
- Desire for more structure (while loving flexibility)
- > On-site events are helpful for networking and learning
- More workplace orientation (more hands-on; project oriented)





Peer-to-Peer-Learning & Networking: Group Work





Onsite and online!



Course schedule 2020

Courses Spring 2020

| Janua | January | | uary | Ma | rch | April | | May | |
|-------|--|--|--------------|----|---|-------------|----------------------------|-----------|---|
| | 642 Project Consulting | | | | | | | | |
| | 732 Pract | Practical Inference from Complex Surveys | | | | | | | |
| | 656 Web Survey Methodology | | | | | | | | |
| - | 704 Computer-Based Content Analysis II | | | | | | | | |
| | | 631 Questionnaire Design | | | | | | | |
| | | 726 Multiple | e Imputation | | | | | | |
| | | 751 Big Data Machine Lea | | | | | | | |
| | | | | 69 | 699J Generalized Linear Models | | | | |
| | | | | | 735 Data Confidentiality and Stat. D Control | | | isclosure | |
| | | | | | | | cy Testing for Research | | |
| | | | | | | 699? Sa | mpling II | | IPSD |
| | | | | | | 752 Data Vi | isualization I | | INTERNATIONAL PRI IN SURVEY & DATA S |

Courses Summer 2020

| June | July | August |
|--------------------------|-----------------------------------|--------|
| | 699M Review of Statistical Concep | ots |
| | | |
| 699? Modern Wor | | |
| 702 Analysis of Comp | | |
| 736 Web Scraping and API | | |
| 699? Machine Learning II | | |
| 667 Record | | |
| Linkage | | |
| | 699E Survey Design and | |
| | Implementation in Internationa | |
| | Contexts | |
| | 673 Python/SQL | |

Courses Fall 2020

| September | Octo | ber | November | | Dece | mber |
|-----------------------|-------------------|----------|--|--|------|---|
| 400 Fur | | | | | | |
| 665 Introd | | | | | | |
| 747 Practical Too | ls I (for Samplin | g) | | | | |
| 627 Experim | ental Design | | | | | |
| 730 Measurement Error | | | | | | |
| | 626 Sar | npling I | | | | |
| | 673 Python/SQL | | | | | |
| | 624 Privacy Law | | | | | |
| | | | 699? Data Ethics | | | |
| | | | 703 Computer-Based Content Analysis | | | |
| | | | 725 Item Nonresponse and Imputation | | | IPSD INTERNATIONAL PRE IN SURVEY & DATA R |



Update on IPSDS sustainability efforts

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Organization

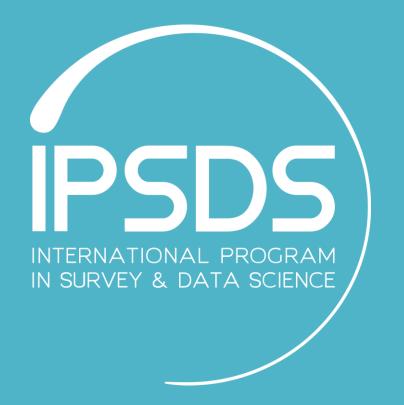
- Mannheim Business School
- Office of Extended Studies Maryland
- International Statistical Institute/Government Agencies/UNECE
- Name of the program

Scaling enrollment

- Single-sign on (extended online short courses)
- Max. #of participants? Reduced video meetings?







Networking opportunity for faculty

Networking opportunity for faculty

Slack (Raphael Nishimura)

Dropbox (Carolina Haensch)

What would you like to see?







Instructional support + tools

Instructional support + tools

Discussion forums (Florian Keusch)

Piazza (Raphael Nishimura)





Coordination & Funding





SPONSORED BY THE





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Thank you for being a part!

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