



Genomics for Social Scientists

NATIONAL INSTITUTE ON AGING

Dates: June 13 – 17, 2022

Location:

Institute for Social Research
426 Thompson ST, Room 1430
University of Michigan

Before you arrive in Ann Arbor...

Module 1: What is a server (3:45)
Module 2: Computing Hardware (4:31)
Module 3: Concepts of Command Line (4:14)
Module 4: Introduction to R concepts (7:38)

MONDAY, June 13

8:30 – 9:15 Light breakfast and coffee served
9:15 – 9:45 *Introduction to the Workshop*
Jessica Faul & Colter Mitchell
9:45 – 10:45 *Introduction to biology and genetics – understanding genomic data in populations*
Sharon Kardia
10:45 – 11:00 Break
11:00 – 11:45 *Collecting, extraction, and storing genetic material; cost and coverage of different platforms/chips*
Jessica Faul
11:45 - 12:30 Boxed Lunch Provided
12:30 – 1:15 *Population stratification and admixture – avoiding the pitfalls and utilizing the strength of ancestry and admixture*
Jennifer Smith
1:15 – 1:30 Break
1:30 – 2:15 *Quality control – estimating and interpreting minor allele frequency, understanding strands, Hardy-Weinberg equilibrium, heterozygosity, linkage disequilibrium,*
Jennifer Smith
2:15 – 4:50 *Lab:*
Linux Mini and Computing
Understanding genetic file types and the content of the files
Viewing and exploring Genome-wide data
Erin Ware
5:00 *Social Event at ISR*

TUESDAY, June 14

- 8:00 – 8:30 Light breakfast and coffee served
- 8:30 – 9:00 Recap of the previous day and questions
- 9:00 – 10:00 *Longitudinal Ageing Study in India (LASI)*
Sharon Kardia
- 10:00 – 10:15 Break
- 10:15 – 11:00 *Ethics in Genomics*
Sharon Kardia, GeSS Faculty
- 11:00 – 11:30 *Imputation – basic explanation of genotype imputation, inputs and outputs, using online reference panels HapMap and 1000 Genomes Project*
Jennifer Smith
- 11:30 – 12:45 Lunch (on your own)
- 12:45 – 1:30 *GWAS and meta analyses - alleles, effects, models, p-values, SNP-based heritability*
Jennifer Smith
- 1:30 – 1:45 Break
- 1:45 – 4:00 *Lab: Understanding and working with different genomic coding schemes*
Assessing genomic data quality control
Erin Ware

WEDNESDAY, June 15

- 8:00 – 8:30 Light breakfast and coffee served
- 8:30 – 9:00 Recap of the previous day and questions
- 9:00 – 9:45 *Structural and rare variants*
Jennifer Smith
- 9:45 – 10:00 Break
- 10:00 – 10:45 *Polygenic scores: construction, utility, use in research*
Colter Mitchell
- 10:45 – 11:00 Break
- 11:00 – 11:45 *Statistical Power issues - multiple testing and replication*
Colter Mitchell
- 11:45 – 1:00 Lunch (on your own)
- 1:00 – 2:00 *Applications of Social Science Genetics using the Health and Retirement Study, English Longitudinal Study of Ageing, Wisconsin Longitudinal Study, and UK Biobank*
Titus Galama, Senior Economist, CESR; Director, Center for Study of Inequality,
University of Southern California
- 2:00 – 2:15 Break
- 2:15 – 4:00 *Lab:*
Extracting genetic data for analysis and using extracted data; Constructing Polygenic Scores
Erin Ware

THURSDAY, June 16

- 8:00 – 8:30 Light breakfast and coffee served
- 8:30 – 9:00 Recap of the previous day and questions
- 9:00 – 9:45 *Gene-environment interaction models – from candidate genes to GWAS data-based models, formal testing GxE*
Colter Mitchell
- 9:45 – 10:00 Break
- 10:00 – 11:00 *Examining the Dynamic Gene: Epigenetics*
Colter Mitchell
- 11:00 – 11:30 *Online genomic resources*
Jessica Faul
- 11:30 – 12:00 *Telomeres*
Colter Mitchell
- 12:00 – 1:15 Lunch (on your own)
- 1:15 – 2:00 *Data Sources – HRS/HRS Sister Studies, AddHealth, Fragile Families, UKBiobank, MESA*
Jessica Faul
- 2:00 – 2:15 Break
- 2:15 – 4:30 *Continuation of previous labs, lab tour (those interested), student presentation assistance*
- 5:30 *Social Event at Bill's Beer Garden, Ashley St. Ann Arbor*
210 S. Ashley St, Ann Arbor, MI 48104
Weather alternative: ISR lobby

FRIDAY, June 17

- 8:00 – 8:30 Light breakfast and coffee served
- 8:30 – 9:00 Recap of the previous day and questions
- 9:00 – 9:45 *Collaborating – working with labs and consortia and finding a collaborator*
Jessica Faul
- 9:45 – 10:00 Break
- 10:00 – 12:00 *Student Presentations I*
- 12:00 – 1:00 Lunch (provided)
- 1:00 – 2:30 *Student Presentations II*
- 2:30 – 2:45 Break
- 2:45 – 3:15 *Pitching your ideas and publishing your work - How to justify your work in a grant application, common review complaints, journals and funding*
Faculty Panel
- 3:15 – 3:30 Final Remarks and Evaluation of Course



June 2021

Dates: June 7-11, 2021

Location:

Virtual!

Before you begin the course...

Module 1: What is a server	(3:45)
Module 2: Computing Hardware	(4:31)
Module 3: Concepts of Command Line	(4:14)
Module 4: Introduction to R concepts	(7:38)

MONDAY, June 7th

Videos to watch before live discussion:

- Introduction to biology and genetics – understanding genomic data in populations
- Collecting, extraction, and storing genetic material; cost and coverage of different platforms/chips
- Quality control – estimating and interpreting minor allele frequency, understanding strands, Hardy-Weinberg equilibrium, heterozygosity, linkage disequilibrium
- Imputation – basic explanation of genotype imputation, inputs and outputs, using online reference panels HapMap and 1000 Genomes Project

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM

Lab 1:

2:30 PM – 5:00 PM (EST) **OR** Watch recording June 8th 9:00 AM – 11:30 AM (EST)

- Linux Mini and Computing
- Understanding genetic file types and the content of the files
- Viewing and exploring Genome-wide data

TUESDAY, June 8th

Videos to watch before live discussion:

- Population stratification and admixture – avoiding the pitfalls and utilizing the strength of ancestry and admixture
- GWAS and meta analyses - alleles, effects, models, p-values, SNP-based heritability
- Online genomic resources



Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM

Lab 2:

2:30 PM – 5:00 PM (EST) **OR** Watch recording June 9th 9:00 AM – 11:30 AM (EST)

- Understanding and working with different genomic coding schemes
- Assessing genomic data quality control

WEDNESDAY, June 9th

Videos to watch before live discussion:

- Structural and rare variants
- Statistical Power issues - multiple testing and replication
- Polygenic scores: construction, utility, use in research

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM

Lab 3:

2:30 PM – 4:30 PM (EST) **OR** Watch recording June 10th 9:00 AM – 11:00 AM (EST)

- Extracting genetic data for analysis and using extracted data
- Constructing Polygenic Scores

THURSDAY, June 10th

Videos to watch before live discussion:

- Gene-environment interaction models – from candidate genes to GWAS data-based models, formal testing GxE
- Examining the Dynamic Gene: Epigenetics
- Telomeres
- Data Sources – HRS/HRS Sister Studies, AddHealth, Fragile Families, UKBiobank, MESA
- Guest Lecture: Sean Curran, PhD Associate Dean of Research and Associate Professor of Gerontology, Molecular and Computational Biology, University of Southern California

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM



Lab 4:

2:30 PM – 4:30 PM (EST) **OR** Watch recording June 11th 9:00 AM – 11:00 AM (EST)

- Continuation of previous labs
- Working on student presentation slide

FRIDAY, June 11th

Videos to watch before live discussion:

- *Collaborating – working with labs and consortia and finding a collaborator*
- Guest Lecture: Eric J. Tchetgen Tchetgen, Professor of Statistics, University of Pennsylvania. "Mendelian Randomization"

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – **3:00 PM**
- Los Angeles, Portland (PST): 9:00 AM – **12:00 PM**
- London: 5:00 PM – **8:00 PM**



Agenda 2020

Dates: December 7-11, 2020

Location:

Virtual!

Before you begin the course...

Module 1: What is a server	(3:45)
Module 2: Computing Hardware	(4:31)
Module 3: Concepts of Command Line	(4:14)
Module 4: Introduction to R concepts	(7:38)

MONDAY, December 7th

Videos to watch before live discussion:

- Introduction to biology and genetics – understanding genomic data in populations
- Collecting, extraction, and storing genetic material; cost and coverage of different platforms/chips
- Quality control – estimating and interpreting minor allele frequency, understanding strands, Hardy-Weinberg equilibrium, heterozygosity, linkage disequilibrium
- Imputation – basic explanation of genotype imputation, inputs and outputs, using online reference panels HapMap and 1000 Genomes Project

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM

Lab 1:

2:30 PM – 5:00 PM (EST) **OR** Tuesday, December 8th 9:00 AM – 11:30 AM (EST)

- Linux Mini and Computing
- Understanding genetic file types and the content of the files
- Viewing and exploring Genome-wide data

TUESDAY, December 8th

Videos to watch before live discussion:

- Population stratification and admixture – avoiding the pitfalls and utilizing the strength of ancestry and admixture
- GWAS and meta analyses - alleles, effects, models, p-values, SNP-based heritability
- Online genomic resources



Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM

Lab 2:

2:30 PM – 5:00 PM (EST) **OR** Wednesday, December 9th 9:00 AM – 11:30 AM (EST)

- Understanding and working with different genomic coding schemes
- Assessing genomic data quality control

WEDNESDAY, December 9th

Videos to watch before live discussion:

- Structural and rare variants
- Statistical Power issues - multiple testing and replication
- Polygenic scores: construction, utility, use in research

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM

Lab 3:

2:30 PM – 4:30 PM (EST) **OR** Thursday, December 10th 9:00 AM – 11:00 AM (EST)

- Extracting genetic data for analysis and using extracted data
- Constructing Polygenic Scores

THURSDAY, December 10th

Videos to watch before live discussion:

- Gene-environment interaction models – from candidate genes to GWAS data-based models, formal testing GxE
- Examining the Dynamic Gene: Epigenetics
- Telomeres
- Data Sources – HRS/HRS Sister Studies, AddHealth, Fragile Families, UKBiobank, MESA

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – 2:00 PM
- Los Angeles, Portland (PST): 9:00 AM – 11:00 AM
- London: 5:00 PM – 7:00 PM



Lab 4:

2:30 PM – 4:30 PM (EST) **OR** Friday, December 11th 9:00 AM – 11:00 AM (EST)

- Continuation of previous labs
- Working on student presentation slide

FRIDAY, December 11th

Videos to watch before live discussion:

- *Collaborating – working with labs and consortia and finding a collaborator*

Live discussion:

- Ann Arbor, New York (EST): 12:00 PM – **3:00 PM**
- Los Angeles, Portland (PST): 9:00 AM – **12:00 PM**
- London: 5:00 PM – **8:00 PM**



Genomics for Social Scientists

NATIONAL INSTITUTE ON AGING

Dates: June 17 – 21, 2019

Location:

Institute for Social Research, Room 1430
University of Michigan

Before you arrive in Ann Arbor...

Module 1: What is a server (3:45)
Module 2: Computing Hardware (4:31)
Module 3: Concepts of Command Line (4:14)
Module 4: Introduction to R concepts (7:38)

MONDAY, June 17

8:30 - 9:00 Light breakfast and coffee served
9:00 - 9:30 *Introduction to the Workshop*
Jessica Faul & Colter Mitchell
9:30 - 10:15 *Introduction to biology and genetics – understanding genomic data in populations*
Kelly Bakulski
10:15 - 11:00 *Collecting, extraction, and storing genetic material; cost and coverage of different platforms/chips*
Jessica Faul
11:00 - 11:15 Break
11:15 - 12:00 *Population stratification and admixture – avoiding the pitfalls and utilizing the strength of ancestry and admixture*
Jennifer Smith
12:00 - 1:00 Boxed Lunch Provided
1:00 - 1:30 *Online genomic resources*
Jessica Faul
1:30 - 4:30 *Lab:*
Linux Mini and Computing
Understanding genetic file types and the content of the files
Viewing and exploring Genome-wide data
Erin Ware
5:00 *Social Event at ISR*

TUESDAY, June 18

8:00 - 8:30 Light breakfast and coffee served

- 8:30 - 9:00 Recap of the previous day and questions
- 9:00 - 9:45 *Quality control – estimating and interpreting minor allele frequency, understanding strands, Hardy-Weinberg equilibrium, heterozygosity, linkage disequilibrium,*
Jennifer Smith
- 9:45 - 10:15 *Imputation – basic explanation of genotype imputation, inputs and outputs, using online reference panels HapMap and 1000 Genomes Project*
Jennifer Smith
- 10:15 - 10:30 Break
- 10:30 - 11:15 *GWAS and meta analyses - alleles, effects, models, p-values, SNP-based heritability*
Jennifer Smith
- 11:15 - 12:00 *Statistical Power issues - multiple testing and replication*
Colter Mitchell
- 12:00 - 1:00 Lunch (on your own)
- 1:00 - 4:00 *Lab: Understanding and working with different genomic coding schemes*
Assessing genomic data quality control
Erin Ware

WEDNESDAY, June 19

- 8:00 - 8:30 Light breakfast and coffee served
- 8:30 - 9:00 Recap of the previous day and questions
- 9:00 - 9:45 *Structural and rare variants*
Jennifer Smith
- 9:45 - 10:30 *Polygenic scores: construction, utility, use in research*
Colter Mitchell
- 10:30 - 10:45 Break
- 10:45 - 11:45 *Genomic SEM*
Andrew Grotzinger, University of Texas at Austin
- 11:45 - 12:15 *Telomeres*
Colter Mitchell
- 12:15 - 1:15 Lunch (on your own)
- 1:15 - 4:00 *Lab:*
Extracting genetic data for analysis and using extracted data; Constructing Polygenic Scores
Erin Ware

THURSDAY, June 20

- 8:00 - 8:30 Light breakfast and coffee served
- 8:30 - 9:00 Recap of the previous day and questions
- 9:00 - 9:45 *Gene-environment interaction models – from candidate genes to GWAS data-based models, formal testing GxE*
Colter Mitchell
- 9:45 – 10:00 Break

- 10:00 – 11:00 *Examining the Dynamic Gene: Epigenetics*
Colter Mitchell
- 11:00 - 12:00 *The Epigenetic Clock*
Morgan Levine, Yale University
- 12:00 - 1:00 Lunch (on your own)
- 1:00 - 2:15 *Longitudinal Study of SES and Telomeres in Costa Rica*
David Rehkopf, Stanford
- 2:15 - 4:30 *Lab:*
Genomic SEM
Erin Ware and Andrew Grotzinger
- 5:00 *Social Event at the Pretzel Bell, Captain's Room, Main St Ann Arbor*

FRIDAY, June 21

- 8:00 - 8:30 Light breakfast and coffee served
- 8:30 - 9:00 Recap of the previous day and questions
- 9:00 - 9:45 *Collaborating – working with labs and consortia and finding a collaborator*
Jessica Faul
- 9:45 - 10:15 *Data Sources – HRS/HRS Sister Studies, AddHealth, Fragile Families, UKBiobank, MESA*
- 10:15 - 10:30 Break
- 10:30 - 12:00 *Student Presentations I*
- 12:00 - 1:00 Lunch
- 1:00 - 3:00 *Student Presentations II*
- 3:00 - 3:15 Break
- 3:15 - 3:45 *Pitching your ideas and publishing your work - How to justify your work in a grant application, common review complaints, journals and funding*
Ethics
Faculty Panel
- 3:45 - 4:00 Final Remarks and Evaluation of Course



Dates: June 18 – 22, 2018

Location:

Institute for Social Research, Room 1430
University of Michigan

Before you arrive in Ann Arbor...

Online Introduction to R
Online Introduction to Linux

MONDAY, June 18

- 8:30 - 9:00 Light breakfast and coffee served
- 9:00 - 9:30 *Introduction to the Workshop*
Jessica Faul & Colter Mitchell
- 9:30 - 10:15 *Introduction to biology and genetics – understanding genomic data in populations*
Kelly Bakulski
- 10:15 - 11:00 *Population stratification and admixture – avoiding the pitfalls and utilizing the strength of ancestry and admixture*
Jennifer Smith
- 11:00 - 11:15 Break
- 11:15 - 12:00 *Quality control – estimating and interpreting minor allele frequency, understanding strands, Hardy-Weinberg equilibrium, heterozygosity, linkage disequilibrium,*
Jennifer Smith
- 12:00 - 1:00 Lunch Provided
- 1:00 - 1:45 *Collecting, extraction, and storing genetic material; cost and coverage of different platforms/chips*
Jessica Faul
- 1:45 - 4:45 *Lab:*
Linux Mini
Understanding genetic file types and the content of the files
Viewing and exploring genome-wide data
Erin Ware
- 5:00 *Social Event at ISR*

TUESDAY, June 19

- 8:00 - 8:30 Light breakfast and coffee served
- 8:30 - 9:00 Recap of the previous day and questions
- 9:00 - 9:45 *Intro to the Wisconsin Longitudinal Study*
Pam Herd, University of Wisconsin
- 9:45 - 10:15 *Exploring the Microbiome*
Pam Herd, University of Wisconsin
- 10:15 - 10:30 Break
- 10:30 - 11:00 *Imputation – basic explanation of genotype imputation, inputs and outputs, using online reference panels HapMap and 1000 Genomes Project*
Jennifer Smith
- 11:00 - 12:00 *GWAS and Heritability - alleles, effects, models, p-values, SNP-based heritability, MTAG*
Jennifer Smith
- 12:00 - 1:00 Lunch (on your own)
- 1:00 - 4:00 *Lab: Understanding and working with different genomic coding schemes*
Assessing genomic data quality control
Erin Ware

WEDNESDAY, June 20

- 8:00 - 8:30 Light breakfast and coffee served
- 8:30 - 9:00 Recap of the previous day and questions
- 9:00 - 9:45 *Statistical power - multiple testing and replication*
Colter Mitchell
- 9:45 - 10:30 *Structural and rare variants*
Jennifer Smith
- 10:30 - 10:45 Break
- 10:45 - 11:30 *Gene-environment interaction models –candidate genes, polygenic scores, formal testing*
Colter Mitchell
- 11:30 - 12:00 *Online genomic resources*
Jessica Faul

12:00 - 1:00 Lunch (on your own)
1:00 - 4:00 *Lab:*
Extracting genetic data
Polygenic score construction and analysis
Erin Ware

THURSDAY, June 21

8:00 - 8:30 Light breakfast and coffee served
8:30 - 9:00 Recap of the previous day and questions
9:00 - 10:00 *Examining the dynamic gene: epigenetics*
Colter Mitchell
10:00 - 10:30 *Telomeres*
Colter Mitchell
10:30 - 10:45 Break
10:45 - 11:30 *Constructing polygenic scores*
Ben Domingue, Stanford University
11:30 - 12:00 *Conducting research using polygenic scores*
Ben Domingue, Stanford University
12:00 - 1:00 Lunch (on your own)
1:00 - 4:00 *Lab:*
Epigenetic data-quality control and analysis
Erin Ware and Kelly Bakulski
5:00 *Social Event at the Pretzel Bell, Captain's Room, Main St Ann Arbor*

FRIDAY, June 22

8:00 - 8:30 Light breakfast and coffee served
8:30 - 9:00 Recap of the previous day and questions
9:00 - 9:30 *Collaborating – working with labs and consortia and finding a collaborator*
Jessica Faul
9:30 - 10:15 *Data Sources – HRS/HRS Sister Studies, AddHealth, Fragile Families, UKBiobank, MESA*
10:15 - 10:30 Break



Genomics for
Social Scientists
NATIONAL INSTITUTE ON AGING

Dates: June 12 – 16, 2017

Time & Location: 9:00 – 4:00
R0230 Ross School of Business
University of Michigan

MONDAY, June 12

- 8:30 - 9:00 Light breakfast and coffee served
- 9:00 - 9:15 *Introduction to the Workshop*
Jessica Faul & Colter Mitchell
- 9:15 - 10:00 *Introduction to biology and genetics – understanding genomic data in populations*
Sharon Kardia
- 10:00 - 10:30 *Collecting, extraction, and storing genetic material; cost and coverage of different platforms/chips*
Jessica Faul
- 10:30 - 10:45 Break
- 10:45 - 11:15 *Population stratification and admixture – avoiding the pitfalls and utilizing the strength of ancestry and admixture*
Jennifer Smith
- 11:15 - 12:00 *Quality control – estimating and interpreting minor allele frequency, Hardy-Weinberg equilibrium, heterozygosity, and linkage disequilibrium*
Wei Zhao & Sharon Kardia
- 12:00 - 1:00 Boxed Lunch Provided
- 1:00 - 4:00 *Lab: Understanding genetic file types and the content of the files*
Viewing and exploring Genome-wide data
Erin Ware
- 4:00 *Social Event at Ross*

TUESDAY, June 13

- 8:30 - 9:00 Light breakfast and coffee served
- 9:00 - 10:30 *Description of the National Study of Adolescent to Adult Health and Tips in Navigating*

the Social Science and Genomics World
Kathleen Mullan Harris

- 10:30 - 10:45 Break
- 10:45 - 11:15 *Imputation – basic explanation of genotype imputation, inputs and outputs, using online reference sources HapMap and 1000 Genomes Project*
Jennifer Smith
- 11:15 - 12:00 *GWAS and meta analyses - alleles, effects, models, p-values*
Jennifer Smith
- 12:00 - 1:00 Lunch (on your own)
- 1:00 - 4:00 *Lab: Understanding and working with different genomic coding schemes*
Assessing genomic data quality control
Erin Ware

WEDNESDAY, June 14

- 8:30 - 9:00 Light breakfast and coffee served
- 9:00 - 9:45 *Statistical Power issues - multiple testing and replication*
Colter Mitchell
- 9:45 - 10:30 *Structural and rare variants*
Jennifer Smith
- 10:30 - 10:45 Break
- 10:45 - 11:30 *SNP-based heritability*
Wei Zhao
- 11:15 - 12:00 *Collaborating – working with labs and consortia and finding a collaborator*
Jessica Faul
Note – postponed until Friday morning!
- 12:00 - 1:00 Lunch (in small groups)
- 1:00 - 4:00 *Lab: Resources for determining genetic regions (external to data)*
Extracting genetic data for analysis
Erin Ware

THURSDAY, June 15

- 8:30 - 9:00 Light breakfast and coffee served
- 9:00 - 9:45 *Gene-environment interaction models – from candidate genes to GWAS data-based models, formal testing GxE*

Colter Mitchell

9:45 - 10:30 *Examining the Dynamic Gene: Telomeres and epigenetics*
Colter Mitchell

10:30 - 10:45 Break

10:45 - 12:00 *Constructing and Using Polygenic Scores*
Daniel Belsky, Duke University

12:00 - 1:00 Lunch on own

1:30 - 4:00 *Lab: Basic viewing of genetic data*
Genomic analyses primer
Constructing Polygenic Scores
Erin Ware

5:00 *Social Event at the Institute for Social Research*

FRIDAY, June 16

8:30 - 9:00 Light breakfast and coffee served

9:00 - 9:10 Introduction

9:10 - 9:45 *Collaborating – working with labs and consortia and finding a collaborator*
Jessica Faul

9:45 - 10:15 *Pitching your ideas and publishing your work - How to justify your work in a grant application, common review complaints, journals and funding*
Faculty Panel

10:15 - 10:30 Break

10:30 - 12:00 *Student Presentations I*

12:00 - 1:00 Lunch

1:00 - 3:00 *Student Presentations II*

3:00 - 3:15 Break

3:15 - 3:45 *Updates from the NIA and Future Training Opportunities*
Sharon Kardia
Prisca Fall and Laura Major, NIA

3:45 - 4:00 Final Remarks and Evaluation of Course