WEEK ONE: June 17 – June 21, 2019

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| --- | --- | --- | --- | --- | --- | --- |
|  | Morning Lecture  9:00 – 10:30 | Break  10:30 – 10:45 | Morning Lecture  10:45 – 12:15 | Lunch  12:15 – 2:00 | Afternoon Session  2:00 – 4:00 | Evening Session  4:15 – 6:00 |
| Day 1  Monday,  June 17th | Room: 1680 SPH I  Welcome Reception  **Will begin at 8:00 a.m.** | | Room: 1690 SPH I  Title: RCRS Training  Lecturer:  B. Mukherjee:  [bhramar@umich.edu](mailto:bhramar@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | Room: 1690 SPH I  4:15-5:15  Cluster demonstration: Dan Barker  5:15-6:00  Informal Q&A session:  Sebastian Zoellner  Matt Zawistowski  Tara Smith  Pedro Orozco del Pino |
| Day 2  Tuesday,  June 18th | Room: 1690 SPH I  Title: Reproducible  Research  Lecturer: J. LeFaive:  lefaivej@umich.edu |  | Room: 1690 SPH I  Title: Study design and  Inference  Lecturer: R Little:  [rlittle@umich.edu](mailto:rlittle@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | Room: 1690 SPH I  Title: Linear  Regression  Lecturer: E. Hector: ehector@umich.edu  OPTIONAL(Review) |
| Day 3  Wednesday,  June 19th | 1690 SPH I  Title: Logistic  Regression  Lecturer: E. Hector: ehector@umich.edu |  | Room: 1690 SPH I  Title: Observational  Data, Bias  Lecturer: R Little:  [rlittle@umich.edu](mailto:rlittle@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | 1690 SPH I  Title: Probability  Lecturer: H. Hartman: [holhart@umich.edu](mailto:holhart@umich.edu)  OPTIONAL (Review) |
| Day 4  Thursday,  June 20th | 1690 SPH I  Title: Causal Inference  Lecturer: Z. Wu:  [zhenkewu@umich.edu](mailto:zhenkewu@umich.edu) |  | Room: 1690 SPH I  Title: Parameter  Estimation/Likelihood  Lecturer: R Little:  [rlittle@umich.edu](mailto:rlittle@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | 1690 SPH I  Title: Linear Algebra  Lecturer: H. Hartman: [holhart@umich.edu](mailto:holhart@umich.edu)  OPTIONAL (Review) |
| Day 5  Friday,  June 21st | Room: 1690 SPH I  Title: Data Wrangling in R with dplyr - Part I  Lecturer: M. Flickinger:  [mflick@umich.edu](mailto:mflick@umich.edu) |  | Room: 1690 SPH I  Title: Data Wrangling in R with dplyr - Part II  Lecturer: M. Flickinger:  [mflick@umich.edu](mailto:mflick@umich.edu) | 12:30 Journey Lecture:  Mike Boehnke | 2750 SPH I  438 WH  1690 Beyster | No Lecture |

WEEK TWO: June 24 – June 28, 2019

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Morning Lecture  9:00 – 10:30 | Break  10:30 – 10:45 | Morning Lecture  10:45 – 12:15 | Lunch  12:15 – 2:00 | Afternoon Session  2:00 – 4:00 | Evening Session  4:15 – 6:00 |
| Day 6  Monday,  June 24th | Room: 1690 SPH I  Title: Visualizing Data in R with ggplot2 - Part I  Lecturer: M. Flickinger:  [mflick@umich.edu](mailto:mflick@umich.edu) |  | Room: 1690 SPH I  Title: Visualizing Data in R with ggplot2 - Part II  Lecturer:  M. Flickinger  [mflick@umich.edu](mailto:mflick@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | Room: 1690 SPH I  Title: Generalized Linear Models  Lecturer: H. Hartman: [holhart@umich.edu](mailto:holhart@umich.edu)  OPTIONAL (Advanced topic) |
| Day 7  Tuesday,  June 25th | Room: 1690 SPH I  Title:Machine Learning I  Lecturer: J. Wiens:  [wiensj@umich.edu](mailto:wiensj@umich.edu) |  | Room: 1690 SPH I  Title: Model Selection I  Lecturer: L. Beesley:  [lbeesley@umich.edu](mailto:lbeesley@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | None |
| Day 8  Wednesday,  June 26th | Room: 1690 SPH I  Title: Machine Learning II  Lecturer: J. Wiens:  [wiensj@umich.edu](mailto:wiensj@umich.edu) |  | Room: 1690 SPH I  Title: Unsupervised  Learning, Clustering I  Lecturer: D. Koutra:  [dkoutra@umich.edu](mailto:dkoutra@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | Room: 1690 SPH I  Title: Correlated Data Models  Lecturer: H. Hartman: [holhart@umich.edu](mailto:holhart@umich.edu)  OPTIONAL (Advanced topic) |
| Day 9  Thursday,  June 27th | Room: 1690 SPH I  Title: Unsupervised  Learning, Clustering II  Lecturer: D. Koutra:  [dkoutra@umich.edu](mailto:dkoutra@umich.edu) |  | Room: 1690 SPH I  Title: Model Selection II  Lecturer: L. Beesley:  [lbeesley@umich.edu](mailto:lbeesley@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster | Room: 1690 SPH I  Title: Assessment of Predictive Models  Lecturer: P. Boonstra: [philb@umich.edu](mailto:philb@umich.edu)  OPTIONAL (Advanced topic) |
| Day 10  Friday,  June 28th | Room: 1690 SPH I  Title: Python Workshop I  Lecturer: F. Kamran:  [fhdkmrn@umich.edu](mailto:fhdkmrn@umich.edu) |  | Room: 1690 SPH I  Title: Python Workshop II  Lecturer: F. Kamran:  [fhdkmrn@umich.edu](mailto:fhdkmrn@umich.edu) | State of the Institute: Bhramar Mukherjee  12:30 Journey Lecture:  Mousumi Banerjee | 2750 SPH I  438 WH  1690 Beyster | None |

WEEK THREE: July 1 – July 5, 2019

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Morning Lecture  9:00 – 10:30 | Break  10:30 – 10:45 | Morning Lecture  10:45 – 12:15 | Lunch  12:15 – 2:00 | Afternoon Session  2:00 – 5:00 |
| Day 11  Monday,  July 1st | Room: 1690 SPH I  Title: Data Mining 1  Lecturer: K. Najarian:  [kayvan@med.umich.edu](mailto:kayvan@med.umich.edu) |  | Room: 1690 SPH I  Title: Visualization I  Lecturer: M. Kay:  [mjskay@umich.edu](mailto:mjskay@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster |
| Day 12  Tuesday,  July 2nd | Room: 1690 SPH I  Title: Data Mining 2  Lecturer: K. Najarian:  [kayvan@med.umich.edu](mailto:kayvan@med.umich.edu) |  | Room: 1690 SPH I  Title: Precision Health  Lecturer: S. Kheterpal: <sachinkh@med.umich.edu> |  | 2750 SPH I  438 WH  1690 Beyster |
| Day 13  Wednesday,  July 3rd | Room: 1690 SPH I  Title: Visualization II  Lecturer: M. Kay:  [mjskay@umich.edu](mailto:mjskay@umich.edu) |  | Room: 1690 SPH I  Title: Intro to Bayes I  Lecturer: W. Wen:  [xwen@umich.edu](mailto:xwen@umich.edu) |  | 2750 SPH I  438 WH  1690 Beyster |
| Day 14  Thursday,  July 4th | No Class – Independence Day | | | | |
| Day 15  Friday,  July 5th | Room: 1690 SPH I  Title: Intro to Bayes  II  Lecturer: W. Wen:  [xwen@umich.edu](mailto:xwen@umich.edu) |  | Room: 1690 SPH I  State of the Institute  Lecturer: B. Mukherjee:  bhramar@umich.edu | Journey Lectures:  12:30  Snigdha Panigrahi  1:15  Jeremy Taylor | 2750 SPH I  438 WH  1690 Beyster |

WEEK FOUR: July 8 – July 12, 2019

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Morning Lecture  9:00 – 10:30 | Break  10:30 – 10:45 | Morning Lecture  10:45 – 12:15 | Lunch  12:15 – 2:00 | Afternoon Session  2:00 – 5:00 |
| Day 16  Monday,  July 8th | Room: 1690 SPH I  Title: TBD  Lecturer: I. Surakka  [isurakka@umich.edu](mailto:isurakka@umich.edu) |  | Room: 1690 SPH I  Title: R Markdown  P. Boonstra: [philb@umich.edu](mailto:philb@umich.edu) | Group Photo | M1123 SPH II  438 WH  1690 Beyster |
| Day 17  Tuesday,  July 9th | Room: 1690 SPH I  Title:Bayes Computation I  Lecturer: Y.Chen:  [ychenang@umich.edu](mailto:ychenang@umich.edu) |  | Room: 1690 SPH I  Title: Bayes Computation II  Lecturer: Y.Chen:  [ychenang@umich.edu](mailto:ychenang@umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 18  Wednesday,  July 10th | Room: 1690 SPH I  Title: Reading like a  scientific Writer  Lecturer: B. Griffiths:  [brettmegan@gmail.com](mailto:brettmegan@gmail.com) |  | Room: 1690 SPH I  Title: Social Network  Lecturer: E. Adar:  [eadar@umich.edu](mailto:eadar@umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 19  Thursday,  July 11th | Room: 1690 SPH I  Title: TBD (Cardiovascular)  Lecturer: L. Lisabeth: [llisabet@umich.edu](mailto:llisabet@umich.edu) |  | Room: 1690 SPH I  Title: Human-Centered Computing: Using Speech to Understand Behavior  Lecturer: E. Provost: [emilykmp@umich.edu](mailto:emilykmp@umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 20  Friday,  July 12th | Room: 1690 SPH I  Title: Spatial Epidemiology  Lecturer: J. Zelner: [jzelner@umich.edu](mailto:jzelner@umich.edu) |  | Room: 1690 SPH I  State of the Institute  Lecturer:  B. Mukherjee:  [bhramar@umich.edu](mailto:bhramar@umich.edu) | 12:30 Journey Lecture:  Cathie Spino | M1123 SPH II  438 WH  1690 Beyster |

WEEK FIVE: July 15 – July 19, 2019

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| --- | --- | --- | --- | --- | --- |
|  | Morning Lecture  9:00 – 10:30 | Break  10:30 – 10:45 | Morning Lecture  10:45 – 12:15 | Lunch  12:15 – 2:00 | Afternoon Session  2:00 – 5:00 |
| Day 21  Monday,  July 15th | Room: 1690 SPH I  Title: Natural Language  Processing I  Lecturer: K. Singh:  [kdpsingh@med.umich.edu](mailto:kdpsingh@med.umich.edu) |  | 1690 SPH I  Title: Natural Language  Processing II  Lecturer: K. Singh:  [kdpsingh@med.umich.edu](mailto:kdpsingh@med.umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 22  Tuesday,  July 16th | Room: 1690 SPH I  Title: Optimization I  Lecturer: H.M. Kang  [hmkang@umich.edu](mailto:hmkang@umich.edu) |  | 1690 SPH I  Title: Optimization II  Lecturer: H.M. Kang  [hmkang@umich.edu](mailto:hmkang@umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 23  Wednesday,  July 17th | Room: 1690 SPH I  Title: Writing from Point A  to Point D: Simple Strategies  for Conveying Complex  Ideas.  Lecturer: B. Griffiths:  [brettmegan@gmail.com](mailto:brettmegan@gmail.com) |  | 1690 SPH I  Title: TBD  Lecturer: V. Baladandayuthapani:  veerab@umich.edu |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 24  Thursday,  July 18th | Room: 1690 SPH I  Title: TBD Lecturer: A. Rao  [ukarvind@umich.edu](mailto:ukarvind@umich.edu) |  | 1690 SPH I  Title: Optimzation In  Health  Lecturer: B. Denton  [btdenton@med.umich.edu](mailto:btdenton@med.umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 25  Friday,  July 19th | Room: 1690 SPH I  Title: TBD  Lecturer: B. Nallamothu  [bnallamo@umich.edu](mailto:bnallamo@umich.edu) |  | 1690 SPH I  State of the Institute  Lecturer: S. Zoellner:  [szoellne@umich.edu](mailto:szoellne@umich.edu) | Journey Lectures:  12:30  Pedro Orozco del Pino  1:15  Lauren Beesley | M1123 SPH II  438 WH  1690 Beyster |

WEEK SIX: July 22 – July 26, 2019

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| --- | --- | --- | --- | --- | --- |
|  | Morning Lecture  9:00 – 10:30 | Break  10:30 – 10:45 | Morning Lecture  10:45 – 12:15 | Lunch  12:15 – 2:00 | Afternoon Session  2:00 – 5:00 |
| Day 26  Monday,  July 22nd | Room: 1690 SPH I  Title: Preparing for  Graduate School  Lecturer: K. Kidwell:  [kidwell@umich.edu](mailto:kidwell@umich.edu) |  | Room: 1690 SPH I  Title: CV and Resumes  Lecturer: K. Forbes:  [forbeskr@umich.edu](mailto:forbeskr@umich.edu) |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 27  Tuesday,  July 23rd | Room: 1690 SPH I  Title: TBD  Lecturer: B. Griffiths:  [brettmegan@gmail.com](mailto:brettmegan@gmail.com) |  | Room: 1690 SPH I  Project Work time |  | M1123 SPH II  438 WH  1690 Beyster |
| Day 28  Wednesday,  July 24th | Room: 1690 SPH I  Project Work time |  | Room: 1690 SPH I  10:45-11:45  Project work time | 11:45-1:30  Lunch | 1:30-2  Evaluations  Poster session info  2-4  1690  Rehearsal for presentations |
| Day 29  Thursday,  July 25th | Symposium  Rackham Fourth Floor | | | | |
| Day 30  Friday,  July 26th | Professional Development Day Room: 1690 SPH I  Room 1690 SPH I  Room 1680 SPH I (Breakfast and Lunch)  Journey Lecture – Bhramar Mukherjee | | | | |

BDSI 2019 Project Groups

**Data Mining -** [**BDSI.2019.DM@umich.edu**](mailto:BDSI.2019.DM@umich.edu)

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Jonathan Terhorst [jonth@umich.edu](mailto:jonth@umich.edu)

Co-mentors: Zoe Rehnberg [zrehnber@umich.edu](mailto:zrehnber@umich.edu)

Anwesha Bhattacharyya [anwebha@umich.edu](mailto:anwebha@umich.edu)

**Genomics -** [**BDSI.2019.Genomics@umich.edu**](mailto:BDSI.2019.Genomics@umich.edu)

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Xiang Zhou [xzhousph@umich.edu](mailto:xzhousph@umich.edu)

Sarah Gagliano [sarahgag@umich.edu](mailto:sarahgag@umich.edu)

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**Machine Learning -** [**BDSI.2019.ML@umich.edu**](mailto:BDSI.2019.ML@umich.edu)

Instructor: Jenna Wiens [wiensj@umich.edu](mailto:wiensj@umich.edu)

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BDSI 2019 Contact Information

|  |  |  |
| --- | --- | --- |
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| Student Coordinator (Events) | Kim Hochstedler | <hochsted@umich.edu> |

|  |  |
| --- | --- |
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