iUTAH Undergraduate Research Fellows (iFellows) Program
2016 Schedule

May 16, 2016 - July 29, 2016

Week 1

5/16/16, Monday

iFellows Orientation, 9:00 am - 2:00 pm
Officer's Club, University of Utah

- 8:30 am – Sign in, Informal networking, light snacks

- 9:00 am – Opening, Introductions
  - Orientation Overview
    - Schedule for the day
    - iFellows photos
  - Group Introductions

- 9:30 am
  - iUTAH Overview
    - Research Focus Areas
      - RFA 1 (*Zach Aanderud, BYU*)
      - RFA 2 (*Joanna Endter-Wada, USU*)
      - RFA 3 (*Sarah Null, USU*)
    - Education, Outreach and Diversity (*Mark Brunson, USU*)

- 10:30 – Break
- 10:45 – Icebreaker (*Maura Hahnenberger, SLCC*)
  - Group Discussion
    - Pathways to fields of study

- 11:15 – iFellows Program Overview (*Ellen Eiriksson, USU*)
  - Summer Cohort Session schedule and expectations
  - Weekly research updates and iUTAH connections
  - iUTAH Resources
  - Questions

- 12:00pm – Working lunch: Research group meetings

- o   iFellows will meet with mentors to discuss summer plans

- 1:00pm – Concurrent Sessions
  - o   **iFellows/Undergraduate Students (North Room):** What is Research, and what does it look like? (*Maura Hahnenberger, SLCC*)
- **Mentors:** Mentor Discussion (*Lucas Moyer-Horner, UU*)
  - o   Mentoring learned, not taught

- 2:00pm – Wrap-up
  - o   Assignment for Cohort Session 2
    - ▪   Write a short Bio of yourself for the iUTAH website, and email to Ellen by Friday 5/20
    - ▪   Write your first weekly re-cap, and email it to Areg Haytayan by Friday 5/20.
    - ▪   Request an account on the iUTAH participant portal, and browse the iUTAH network.
    - ▪   Create a "map" of the network in your research lab. Who is in the lab, and what do they do? You will share this during our next iFellow Cohort meeting.
    - ▪   Make a list of what you expect to learn during the iFellows program this summer, including skills you would like to develop. Share this list with your mentor.

- 2:15pm – Adjourn

5/17-20, Tues-Fri   Research at mentor's institution

Week 2
5/23/16, Monday   **iFellows Cohort Session #2, 9:00am – 3:00pm**
USTAR Building 650, Logan, UT
Room 158

- 9:00am – Introduction
  - o   Brief project updates, homework discussion: lab group networks

- 10:00am – Responsible Conduct for Research (RCR) Training
  - o   Data Management and Sharing (*Jeff Horsburgh, USU*)
  - o   Case Study (*Russ Price, USU*)

- 11:30am – Networking Lunch

- 12:30pm – Presenting Research- Posters, PowerPoints, and Papers (*Scott Bates, USU*)

- 1:30pm – Concurrent Sessions

  - Room 158: Improvisation for Scientists (*Maura Hahnenberger, SLCC*)
  - Room 305 B: Mentor Training and Discussion (*Lucas Moyer-Horner, UU*)

- 2:30pm – Assignment for Cohort Session 3
  - Develop a working Introduction and Methods portion of your research poster to share with the group during cohort session #3. iFellows should bring 10 printed copies of their introduction/methods page (paper size: 8.5in. x 11in.) to cohort session #3.

- 2:45pm – Adjourn

5/24-27, Tues-Fri   Research at mentor's institution

Week 3

5/30/16, Monday   Holiday (Memorial Day)

5/31-6/3, Tues-Fri   Research at mentor's institution

Week 4

6/6-10, Mon-Fri   Research at mentor's institution

Week 5

6/13/16, Monday   **iFellows Cohort Session #3, 9:00am – 3:00pm**
Brigham Young University
Room 2145, Life Sciences Building

- 9:00am – Updates and questions from the group

- Concurrent Sessions
  - 9:30am-11:00am – Lightning Presentations: Introductions and Methods

- iFellows will practice presenting these working sections of their paper in a "speed-dating" format (4 minutes to deliver- 1 minute Q&A)

  - 10:00am-11:00am – Mentor Training
    - Room 4014

- 11:00am – 2015 iFellow Presentation and Discussion (*Natasha Griffin, BYU*)

- 11:30am – Working Lunch
  - Debrief morning sessions
  - Homework Assignment for Cohort Session #4:
    - Bring figures (data, study design, conceptual model, etc.) that you are planning on putting on your poster to share with the group.

- 12:15pm – Water Sampling Field Trip (*Dylan Dastrup et al, BYU*)
  - South Fork Park

- 3:00pm – Adjourn

6/14-17, Tues-Fri   Research at mentor's institution

Week 6

6/20-24, Mon-Fri   Research at mentor's institution

Week 7
6/27/16, Monday   **iFellows Cohort Session #4**
Natural History Museum of Utah - Swaner Forum
301 Wakara Way, Salt Lake City, UT 84108

- 9:00am – Updates and questions from the group
  - iFellows will share draft poster figures

- 9:30am – Concurrent Sessions
  - Swaner Forum: Mentoring Networks (*Maura Hahnenberger, SLCC*)
    - iFellows will explore mentoring networks
  - NHMU Conference Room: Mentor Training (*Lucas Moyer-Horner, UU*)
    - Fostering independence

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- Cultivating ethical behavior

- 10:30am-11:00am – Attending Conferences (*Mark Brunson, USU*)
  - Identifying conferences, submitting abstracts, etc.

- 11:00am – NHMU Digital Interactive Tour (*Becky Menlove, NHMU*)

- 12:00pm – Working Lunch
  - Homework Assignment for cohort session #5:
    - Create your draft research poster. Share/Present your draft poster to your research group. Bring your digital draft poster to 7/8 cohort session on a USB drive. You will present your poster to the group in a 5 minute presentation, and will receive feedback.
  - GAMUT and GIRF introductions

- 1:00pm – GIRF and GAMUT site tours (*Dave Eiriksson, UU and Pratibha Sapkota, UU*)

- 3:00pm – Adjourn

6/28-7/1 Tues-Fri   Research at mentor's institution

Week 8

7/4/16, Monday   Holiday (Independence Day)

7/5-7, Tues-Thurs   Research at mentor's institution

7/8/16, Friday   **iFellows Cohort Session #5**
USTAR Building 650, Logan, UT
Room 158

- 9:00am – iUTAH Symposium Prep (*Ellen Eiriksson, iUTAH*)
  - Poster Session, event schedule, logistics

- 9:30am – iFellows Draft Poster Presentations
  - Each iFellow will have 5 minutes to present, and 5 additional minutes for questions/comment from the group.
  - Breaks will be interspersed throughout the morning

- 12:00pm – Working Lunch

- o Remaining draft poster presentations
- o Questions from the group

- 12:30pm – Diversity Discussion (*Angela Enno-Grey, USU*)

- 1:30pm – Talking to the Media About Your Science (*Jennifer Pemberton)*

- 2:30pm – Adjourn

Week 9

7/11-14, Mon-Thurs   Research at mentor's institution

7/15/16, Friday   **iUTAH Symposium/iFellows Poster Session/**
iUTAH Student Track Meeting, Salt Lake City, UT

- **8:00 am-5:00 pm**

Week 10

7/18-22, Mon-Fri   Research at mentor's institution

Week 11

7/25/16   Holiday (Pioneer Day)

7/26, Tues   Research at mentor's institution

7/27/16, Wednesday   **iFellows Research Symposium**
University of Utah, University Guest House and Conference Center
- 9:00am –Sign in, Informal networking, light breakfast
  - o iFellows will load presentations on laptop

- 9:20 - 9:30am– Welcome (*Mark Brunson, iUTAH Education, Outreach and Diversity Director*)

- 9:30 - 11:00am – iFellow Presentations
Research Focus Area 1: Examining the Water Cycle
  - o **Fire Severity Increases Snow Accumulation in Mixed Conifer Forests**

Katelyn Boyer, *Utah State University*

- o **Quantification of MeHg Fluctuations in the Provo River over a 24-hour Cycle**
  Greta Hamilton, *Westminster College*
- o **Identifying and Comparing Fecal Contamination Sources in Three Utah Watersheds**
  Rebecca Lee, *Brigham Young University*
- o **The Effects of Elevation on Evapotranspiration**
  Shanae Tate, *Brigham Young University*
- o **The Effect of Plot Size on Nitrogen Content and Water Sourcing of Urban Trees in Salt Lake City, UT**
  Lily Wetterlin, *University of Utah*
- o **Microbes vs Nutrients: Understanding Nutrient Pollution in Streams**
  Sandra Udy (Young), *Utah State University*

- 11:00 - 11:10am – Break

- 11:10am - 12:10pm – iFellows Presentations
  Research Focus Area 2: People, Places and Pipes
  - o **Measuring Flow Rates in Small Urban Stormwater Systems**
    Mitchell Steele, *Utah State University*
  - o **Determining the Quantity and Quality of Rainwater Drainage from Various Rooftops**
    Joydino Beyale, *Utah State University Eastern-Blanding*
  - o **Bioretention Effectiveness in a Semi-arid Climate**
    Darcie Christensen, *Utah State University*
  - o **Utilizing Hydroponic Systems to Optimize Food Production in Salt Lake City, Utah**
    Georgie Corkery, *University of Utah*

- 12:15pm - 12:45pm – Lunch
  - o **2016 iFellows program slideshow**

- 12:45pm - 2:00pm – iFellows Presentations
  Research Focus Area 2: People, Places and Pipes, cont.
  - o **Cross Cutting Relationships Among Community Concerns and Green Urban Infrastructure in the Jordan River Corridor**
    Luis Vidal, *University of Utah*
  - o **Spatial Impacts on Local Perceptions of the Jordan River**
    Cynthia Elliott, *Weber State University*
  - o **Utah Water Institutions and Policy Boundaries**
    Stacy Henderson, *Salt Lake Community College*

- o **A Comparative Analysis of Attitudes toward Drinking Water between Utah and the Nation**
  Adam Whalen, *University of Utah*
- o **What Factors Affect the Way People Think About Xeriscaping**
  Gabriela Martinez, *Salt Lake Community College*

- 2:00 - 2:10pm – Break

- 2:10 - 2:55pm – iFellow Presentations
  Research Focus Area 3: Making The Connection
  - o **Mapping Curbside Delivery of Secondary Water in Urban Areas of Cache Valley, Utah**
    Andrew Hackett, *Weber State University*
  - o **Mosaicking and Georeferencing Thermal Infrared Imagery of Swaner Preserve, Park City, Utah**
    Heather Bottelberghe, Salt Lake Community College
  - o **Channel Width Movement, Flow Error Analysis, and the Impact of Change on the Lower Bear River, UT**
    Todd Brown, *Utah State University*

- 3:00pm – Adjourn

7/28-29 Thurs-Fri   Research at mentor's institution

The iUTAH Undergraduate Research Fellows (iFellows) Program is a collaborative, multi-disciplinary and cross-institutional research experience that provides an opportunity for undergraduate students from any Utah institution of higher learning to gain first-hand research experience in the labs of iUTAH project scientists. The iFellows committee would like to thank the Faculty and Near-Peer Mentors at Brigham Young University, the University of Utah, and Utah State University who make this successful program possible through their time and dedication to undergraduate student research development, and also to the 2016 iFellows cohort for their passion and contributions towards research for Utah's water future.