**Program Outline**

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| **Sunday, June 2** | | | | |
| 5:30pm - 6:30pm Dinner, Dining Hall 7:00pm - 8:30pm Icebreaker Reception, Livak Fireplace Lounge, Davis Center | | | | |
| **Monday, June 3** | | | | |
| 7:15am - 7:45am Breakfast, Dining Hall | | | | |
| Grand Maple Ballroom, Davis Center | | |  |  |
| 8:00am - 8:15am | **Welcome and Introductions** | Sensakovic |  |  |
| 8:15am - 9:15am | **Installation and Introduction to Necessary Software** |  |  |  |
| 9:15am - 10:15am | **Mathematics of Imaging - SAM** | Armato |  |  |
| 10:15am - 10:45am Coffee Break | | | | |
|  | **Informatics and Assessment** **- SAM** | |  |  |
| 10:45am - 11:15am | Basic Informatics | Sensakovic |  |  |
| 11:15am - 11:45am | Methods of Assessment | Reiser |  |  |
| Noon - 1:00pm Lunch, Dining Hall | | | | |
|  | **Introduction to Machine Learning - SAM** | |  |  |
| 1:15pm - 2:15pm | Traditional Methods | Suzuki |  |  |
| 2:15pm - 3:15pm | Hands-on Lab: Traditional Machine Learning | Suzuki |  |  |
| 3:15pm - 3:45pm Coffee Break | | | | |
| 3:45pm - 4:45pm | **Introduction to Deep/Convolutional Network** **- SAM** | Bagci |  |  |
| 5:30pm - 6:30pm Dinner, Dining Hall | | | | |
| 7:00pm - 8:30pm Refreshments and Informal Evening Discussion, Livak Fireplace Lounge, Davis Center | | | | |
| **Tuesday, June 4** | | | | |
| 7:30am - 8:00am Breakfast, Dining Hall | | | | |
| Grand Maple Ballroom, Davis Center | | |  |  |
|  | **Enhancement/Restoration/Pre-Processing** **- SAM** | |  |  |
| 8:15am - 9:15am | Traditional Methods | La Riviere |  |  |
| 9:15am - 10:15am | Neural Network/Deep Learning | Dutta |  |  |
| 10:15am - 10:45am Coffee Break | | | | |
|  | **Applications I - SAM** | |  |  |
| 10:45am - 11:15am | Digital Pathology | Gurcan |  |  |
| 11:15am - 11:45am | Virtual Dual Energy Chest | Suzuki |  |  |
| Noon - 1:00pm Lunch, Dining Hall | | | | |
| Free Afternoon! [Click Here](https://w3.aapm.org/meetings/2019SS/programInfo/freeAfternoon.php) for suggestions. | | |  |  |
| 5:00pm - 5:30pm Dinner, Dining Hall | | | | |
| 5:30pm departure for [Lake Champlain Charter](https://w3.aapm.org/meetings/2019SS/programInfo/eveningEvents.php) - transportation provided | | | | |
| 6:00pm board Spirit of Ethan Allen III at Lakefront; return at 9:00pm | | | | |
| **Wednesday, June 5** | | | | |
| 7:30am - 8:00am Breakfast, Dining Hall | | | | |
| Grand Maple Ballroom, Davis Center | | |  |  |
|  | **Segmentation I - SAM** | |  |  |
| 8:15am - 9:45am | Traditional | Armato |  |  |
| 9:45am - 10:15am Coffee Break | | | | |
|  | **Segmentation II - SAM** | |  |  |
| 10:15am - 11:45am | Neural Network/Deep Learning | Yang |  |  |
| Noon - 1:00pm Lunch, Dining Hall | | | | |
|  | **Registration I - SAM** | |  |  |
| 1:15pm - 2:45pm | Traditional | Sharp |  |  |
| 2:45pm - 3:15pm Coffee Break | | | | |
|  | **Registration II - SAM** |  |  |  |
| 3:15pm - 4:45pm | Neural Network/Deep Learning | Brock |  |  |
| 5:30pm - 6:30pm Dinner, Dining Hall | | | | |
| 7:00pm - 8:30pm Refreshments and Informal Evening Discussion, Livak Fireplace Lounge, Davis Center | | | | |
| **Thursday, June 6** | | | | |
| 7:00am - 8:00am Breakfast, Dining Hall | | | | |
| Grand Maple Ballroom, Davis Center | | |  |  |
|  | **Feature Analysis and Quantitative Biomarkers - SAM** | |  |  |
| 8:15am - 9:15am | Types of Features | Court |  |  |
| 9:15am - 10:15am | Creating Biomarkers | Giger |  |  |
| 10:15am - 10:45am Coffee Break | | | | |
|  | **Feature Analysis and Quantitative Biomarkers - SAM** | |  |  |
| 10:45am - 11:45am | Visualizing Deep Learning Filters and Features | Bagci |  |  |
| Noon - 1:00pm Lunch, Dining Hall | | | | |
|  | **Feature Analysis/Evaluation - SAM** | |  |  |
| 1:15pm - 2:15pm | Training/Testing Paradigms | Samuelson |  |  |
|  | **Applications II - SAM** |  |  |  |
| 2:15pm - 2:45pm | Registration for Radiotherapy | Brock |  |  |
| 2:45pm - 3:15pm | Risk Prediction | Giger |  |  |
| 3:15pm - 3:45pm Coffee Break | | | | |
|  | **Applications III - SAM** |  |  |  |
| 3:45pm - 4:15pm | Tumor Response Tracking | Armato |  |  |
| 4:15pm - 4:45pm | Biomarkers for Treatment Decisions | Jeraj |  |  |
| 5:30pm - 6:30pm Dinner, Dining Hall | | | | |
| 7:00pm - 8:00pm Off Campus Social at Sweetwaters Bistro, 120 Church Street | | | | |
| **Friday, June 7** | | | | |
| 7:00am - 8:00am Breakfast, Dining Hall | | | | |
| Grand Maple Ballroom, Davis Center | | |  |  |
| 8:15am - 9:15am | **Standardization** **- SAM** | Jackson |  |  |
| 9:15am - 10:15am | **Ethics and Regulatory Considerations - SAM** | Sahiner |  |  |
| 10:15am - 10:45am Coffee Break | | | | |
| 10:45am - 11:45am | **Future** | Jeraj |  |  |
| 11:45am - Noon | Wrap up | Sensakovic |  |  |
| **Grab and Go Lunch** | | | | |
| Cab share or Uber to the Airport | | | | |

Additional Links

* [Faculty](https://w3.aapm.org/meetings/2019SS/programInfo/faculty.php)
* [Free Afternoon](https://w3.aapm.org/meetings/2019SS/programInfo/freeAfternoon.php)
* [Evening Events](https://w3.aapm.org/meetings/2019SS/programInfo/eveningEvents.php)
* [USB Flash Drive Sales](https://w3.aapm.org/meetings/2019SS/programInfo/products.php)