

# ICQE 2021 Schedule

January 30, 2021

| Time             |              |               | Parallel Tracks                                  |         |         |
|------------------|--------------|---------------|--|---------|---------|
| US Central (CST) | London (GMT) | Sydney (AEDT) | Track A  | Track B | Track C |
| 12:00            | 18:00        | 5:00          | <b>Doctoral Consortium Session 1 (2 hours)</b>   |         |         |
| 12:30            | 18:30        | 5:30          |  |         |         |
| 13:00            | 19:00        | 6:00          |  |         |         |
| 13:30            | 19:30        | 6:30          |  |         |         |
| 14:00            | 20:00        | 7:00          |  |         |         |
| 14:30            | 20:30        | 7:30          |  |         |         |
| 15:00            | 21:00        | 8:00          |  |         |         |
| 15:30            | 21:30        | 8:30          |  |         |         |
| 16:00            | 22:00        | 9:00          | <b>Early Career Workshop Session 1 (2 hours)</b> |         |         |
| 16:30            | 22:30        | 9:30          |  |         |         |
| 17:00            | 23:00        | 10:00         |  |         |         |
| 17:30            | 23:30        | 10:30         |  |         |         |

January 31, 2021

| Time             |              |               | Parallel Tracks  |   |  |
|------------------|--------------|---------------|--|---|--|
| US Central (CST) | London (GMT) | Sydney (AEDT) | Track A  | Track B   | Track C  |
| 8:00             | 14:00        | 1:00          | <b>Workshop 1A: Open Science and the Reproducible Open Coding Kit (ROCK) (2 hours)</b><br><i>Szilvia Zörgő and Gjalit-Jam Ygram Peters</i><br>Participants will walk through the fundamentals of the Reproducible Open Coding Kit (ROCK) with a special focus on how it can be employed for QE analyses. | <b>Workshop 1B: Introduction to ENA (2hours)</b><br><i>Kamila Misiejuk, Clare Porter, and Brendan Eagan</i><br>This workshop will explore the basics of quantitative ethnography using ENA, explain the underlying theory of the tool, and discuss basic use. | <b>Workshop 1C: Advanced ENA Interpretations (2 hours)</b><br><i>David Williamson Shaffer</i><br>This workshop will focus on interpreting ENA models and associated results.   |
| 8:30             | 14:30        | 1:30          |  |   |  |
| 9:00             | 15:00        | 2:00          |  |   |  |
| 9:30             | 15:30        | 2:30          |  |   |  |
| 10:00            | 16:00        | 3:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |   |  |
| 10:30            | 16:30        | 3:30          |  |   |  |
| 11:00            | 17:00        | 4:00          |  |   |  |
| 11:30            | 17:30        | 4:30          |  |   |  |
| 12:00            | 18:00        | 5:00          |  |   |  |
| 12:30            | 18:30        | 5:30          |  |   |  |
| 13:00            | 19:00        | 6:00          |  |   |  |
| 13:30            | 19:30        | 6:30          |  |   |  |
| 14:00            | 20:00        | 7:00          |  |   |  |
| 15:00            | 21:00        | 8:00          | <b>Junior Scholar Get Together (1 hour)</b><br>An opportunity for students, postdoctoral scholars, and other early career researchers to meet informally.  |   |  |
| 15:30            | 21:30        | 8:30          | <b>Workshop 2A: Introduction to nCoder (2hours)</b><br><i>Amanda Siebert-Everstone, Seung Lee, and Brendan Eagan</i><br>This workshop will explore quantitative ethnographic analysis using nCoder, explain the underlying theory of the tool, and discuss basic use and common strategies.              | <b>Workshop 2B: Advanced ENA and rENA (2hours)</b><br><i>Zachari Swiecki, Vito Kavanovic, and Yeyu Wang</i><br>This workshop will introduce using rENA and combining ENA with other methods.  | <b>Workshop 2C: Social Media Data Scraping for Social Scientists (2hours)</b><br><i>Woodsan Hobbs and Chianti Huang</i><br>Participants will be introduced to strategies for accessing social media data using tools such as Data Miner and Twitter API. |
| 16:00            | 22:00        | 9:00          |  |   |  |
| 16:30            | 22:30        | 9:30          |  |   |  |
| 17:00            | 23:00        | 10:00         |  |   |  |
| 17:30            | 23:30        | 10:30         |  |   |  |
| 18:00            | 0:00         | 11:00         |  |   |  |

February 1, 2021

| Time             |              |               | Parallel Tracks   |   |  |
|------------------|--------------|---------------|---|---|--|
| US Central (CST) | London (GMT) | Sydney (AEDT) | Track A   | Track B   | Track C  |
| 8:00             | 14:00        | 1:00          | <b>Welcome (1 hour)</b>   |   |  |
| 8:30             | 14:30        | 1:30          |   |   |  |
| 9:00             | 15:00        | 2:00          | <b>Paper Session 1A: Affect Analysis in Quantitative Ethnography (1 hour)</b><br><i>Moderator: Sarah Jung</i> <ul style="list-style-type: none"> <li>Studying Affect Dynamics using Epistemic Networks by Shamyia Karumbaiah and Ryan Baker</li> <li><b>Best Graduate Student Paper Nominee</b></li> <li>Incorporating Sentiment Analysis with Epistemic Network Analysis to Enhance Discourse Analysis of Twitter Data by Kamila Misiejuk, Jennifer Scianna, Rogers Kaliisa, Karl Vachuska and David Williamson Shaffer</li> <li>Student Emotions in the Shift to Online Learning During the COVID-19 Pandemic by Danielle Espino, Tiffany Wright, Victoria Brown, Zachariah Mbasu, Matthew Sweeney and Seung Lee</li> </ul> | <b>Paper Session 1B: Analysis of Group Dynamics in Quantitative Ethnography (1 hour)</b><br><i>Moderator: Daniel Spikol</i> <ul style="list-style-type: none"> <li>Directed Epistemic Network Analysis by Ariel Fogel, Zachari Swiecki, Cody Marquart, Zhiqiang Cai, Yeyu Wang, Jais Brohinsky, Amanda Siebert-Evenstone, Brendan Eagan, Andrew R. Ruis and David Williamson Shaffer</li> <li><b>Best Graduate Student Paper Nominee</b></li> <li>How is Team Membership Change Manifested in Collective Interactions? Using Epistemic Network Analysis to Explore the Challenges of Contemporary Team Composition by Marta Jackowska</li> <li>Does Social Presence Play a Role in Learners' Positions in MOOC Learner Network? A Machine Learning Approach to Analyze Social Presence in Discussion Forums by Wenting Zou, Zifeng Pan, Chenglu Li and Min Liu</li> </ul> | <b>Paper Session 1C: Quantitative Ethnography in Healthcare Contexts (1 hour)</b><br><i>Moderator: Moira Faul</i> <ul style="list-style-type: none"> <li>Exploring Effects of Various Forms of Segmentation on Semi-Structured Interview Data with Epistemic Network Analysis by Szilvia Zörgö, Zachari Swiecki and Andrew R. Ruis</li> <li><b>Best Paper Nominee</b></li> <li>Governmental Response to the COVID-19 Pandemic: A Quantitative Ethnographic Comparison of Public Health Authorities' Communication in Denmark, Norway, and Sweden by Karoline Schnaider, Stefano Schiavetto, Florian Meier, Barbara Wasson, Benjamin Brink Allsopp and Daniel Spikol</li> <li><b>Best Graduate Student Paper Nominee</b></li> <li>Healthcare Professionals' Perceptions of Telehealth: Analysis of Tweets from Pre- and During the COVID-19 Pandemic by Sarah Larson, Vitaliy Popov, Azliza Mohd Al, Parameswaran Ramanathan, and Sarah Jung</li> </ul> |
| 9:30             | 15:30        | 2:30          |   |   |  |
| 10:00            | 16:00        | 3:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>   |   |  |
| 10:30            | 16:30        | 3:30          |   |   |  |
| 11:00            | 17:00        | 4:00          | <b>Coffee with a Proffie 1 (1 hour)</b>   |   |  |
| 11:30            | 17:30        | 4:30          | This session will pair more senior members in the field with up-and-coming researchers to provide guidance and advice about research and career trajectories.   |   |  |
| 12:00            | 18:00        | 5:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>   |   |  |
| 12:30            | 18:30        | 5:30          |   |   |  |
| 13:00            | 19:00        | 6:00          |   |   |  |
| 13:30            | 19:30        | 6:30          | <b>Keynote: Human Factors and Quantitative Ethnography: Exploring Interactions to Improve Systems (1:30 hours)</b><br><i>Abigail R. Wooldridge</i>  |   |  |
| 14:00            | 20:00        | 7:00          |   |   |  |
| 14:30            | 20:30        | 7:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>   |   |  |
| 15:00            | 21:00        | 8:00          |   |   |  |
| 15:30            | 21:30        | 8:30          | <b>Poster Session (1:30 hours)</b>  |   |  |
| 16:00            | 22:00        | 9:00          |   |   |  |
| 16:30            | 22:30        | 9:30          |   |   |  |
| 17:00            | 23:00        | 10:00         | <b>Paper Session 2A: Coding and Qualitative Analysis in Quantitative Ethnography (1 hour)</b><br><i>Moderator: Morten Misfeldt</i> <ul style="list-style-type: none"> <li>Using Topic Modeling for Code Discovery in Large Scale Text Data by Zhiqiang Cai, Amanda Siebert-Evenstone, Brendan Eagan and David Williamson Shaffer</li> <li><b>Best Paper Nominee</b></li> <li>Establishing Trustworthiness through Algorithmic Approaches to Qualitative Research by Ha Nguyen, June Ahr, Ashlee Belgrave, Jiwon Lee, Lora Cawelti, Ha Eun Kim, Yenda Prado, Rossella Santagata and Adriana Villavicencio</li> <li>How We Code by David Williamson Shaffer and Andrew Ruis</li> </ul>  | <b>Paper Session 2B: Quantitative Ethnography in Science Education Contexts (1 hour)</b><br><i>Moderator: Karin Frey</i> <ul style="list-style-type: none"> <li>"What Would Happen if Humans Disappeared from Earth?" Tracing and Visualizing Change in a Pre-school Child's Domain-related Curiosities by Mamta Shah, Amanda Barany and Amanda Siebert-Evenstone</li> <li><b>Best Paper Nominee</b></li> <li>Counting the Game: Visualizing Changes in Play by Incorporating Game Events by Jennifer Scianna, David Gagnon and Mariah A. Knowles</li> </ul>  | <b>Paper Session 2C: New and Foundational Techniques in Quantitative Ethnography (1 hour)</b><br><i>Moderator: Dragan Gošević</i> <ul style="list-style-type: none"> <li>The Mathematical Foundations of Epistemic Network Analysis by Dale Bowman, Zachari Swiecki, Zhiqiang Cai, Yeyu Wang, Brendan Eagan, Jeff Linderth, and David Williamson Shaffer</li> <li>Simplification of Epistemic Networks Using Parsimonious Removal with Interpretive Alignment by Yeyu Wang, Zachari Swiecki, Andrew R. Ruis and David Williamson Shaffer</li> <li>Socio-semantic Network Analysis of Knowledge-creation Discourse on a Real-time Scale by Ayano Ohsaki and Jun Oshima</li> <li><b>Best Paper Nominee</b></li> </ul>  |
| 17:30            | 23:30        | 10:30         |   |   |  |
| 18:00            | 0:00         | 11:00         | <b>Coffee Break / Open Chat Time (30 minutes)</b>   |   |  |

February 2, 2021

| Time             |              |               | Parallel Tracks  |  |  |
|------------------|--------------|---------------|--|--|--|
| US Central (CST) | London (GMT) | Sydney (AEDT) | Track A  | Track B  | Track C  |
| 8:30             | 14:30        | 1:30          | <b>Cody's Corner (1:30 hours)</b><br>Join Cody Marquart, lead software developer of ENA, nCoder, and other QE tools, for an informal Q&A session about QE software and tool development.   |  |  |
| 9:00             | 15:00        | 2:00          |  |  |  |
| 9:30             | 15:30        | 2:30          |  |  |  |
| 10:00            | 16:00        | 3:00          | <b>Paper Session 3A: Quantitative Ethnography: New Approaches and Opportunities (1 hour)</b><br><i>Moderator: Vitaliy Popov</i> <ul style="list-style-type: none"> <li>Scoping the Emerging Field of Quantitative Ethnography: Opportunities, Challenges &amp; Future Directions by Rogers Kallisa, Kamila Misiejuk, Golnaz Arastoopour Irgens, and Morten Misfeldt</li> </ul> <b>Best Graduate Student Paper Nominee</b> <ul style="list-style-type: none"> <li>Negotiating Tensions: A Study of Pre-Service English as Foreign Language Teachers' Sense of Identity within their Community of Practice by Hazel Vega Quesada, Golnaz Arastoopour Irgens, and Cinamon Bailey</li> <li>Epistemic Frames and Political Discourse Modeling by Eric Hamilton and Woodson Hobbs</li> </ul> | <b>Paper Session 3B: Quantitative Ethnography in Learning Contexts (1 hour)</b><br><i>Moderator: Barbara Wasson</i> <ul style="list-style-type: none"> <li>Connecting Curricular Design and Student Identity Change: An Epistemic Network Analysis by Amanda Barany, Mamta Shah and Aroutis Foster</li> </ul> <b>Best Graduate Student Paper Nominee</b> <ul style="list-style-type: none"> <li>Trajectories in Epistemic Network Analysis by Jais Brohinsky, Cody Marquart, Junting Wang, Andrew Ruis, and David Williamson Shaffer</li> <li>The Value of Epistemic Network Analysis in Single-case Learning Analytics: A Case Study in Lifelong Learning by Luis P. Prieto, María Jesús Rodríguez-Triana, Tobias Ley, and Brendan Eagan</li> </ul> <b>Best Paper Nominee</b> | <b>Symposium: Challenges and Solutions to Examining Twitter Data: Reflections from QE-COVID19 Data Challenge (1 hour)</b><br><i>Woodson Hobbs, Rogers Kallisa, Kamila Misiejuk, Melanie Peffer, David Sanchez, Jennifer Scianna, Mamta Shah, Hamideh Talefian, Karl Vachuska, Yeyu Wang, Sukie Wang, Manique Woodard and Szilvia Zörgő</i> |
| 10:30            | 16:30        | 3:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 11:00            | 17:00        | 4:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 11:30            | 17:30        | 4:30          | <b>Women in QE (1 hour)</b><br>Join Golnaz Arastoopour Irgens, Mamta Shah, Danielle Espino, and Kamila Misiejuk to discuss issues facing women in QE and to meet other women doing QE research.  |  |  |
| 12:00            | 18:00        | 5:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 12:30            | 18:30        | 5:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 13:00            | 19:00        | 6:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 13:30            | 19:30        | 6:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 14:00            | 20:00        | 7:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 14:30            | 20:30        | 7:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 15:00            | 21:00        | 8:00          | <b>Special Session: Future of Quantitative Ethnography: Promises and Challenges (1 hour)</b><br><i>Mamta Shah and Marta Jackowska, Amanda Barany, Marcia Moraes, Zachari Swiecki, and Szilvia Zörgő</i><br>In this special session organized by former DC and ECW participants, Mamta Shah and Marta Jackowska will moderate a discussion of the challenges QE scholars experience, the strategies they employ to overcome them, and the opportunities QE presents for advancing research and practice. The panel of discussants will include Amanda Barany (Drexel University), Zachari Swiecki (Monash University), and Szilvia Zörgő (Semmelweis University).   |  |  |
| 15:30            | 21:30        | 8:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 16:00            | 22:00        | 9:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 16:30            | 22:30        | 9:30          | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 17:00            | 23:00        | 10:00         | <b>Paper Sessions 4A: Case Studies in Quantitative Ethnography (1) (1 hour)</b><br><i>Moderator: Bian Wu</i> <ul style="list-style-type: none"> <li>Collaborative Learning Analysis Using Business Card-Type Sensors by Shunpei Yamaguchi, Shusuke Otawa, Ritsuko Oshima, Jun Oshima, Takuya Fujihashi, Shunsuke Saruwatari, and Takashi Watanabe</li> <li>Safety First: Developing a Model of Expertise in Collaborative Robotics by Amanda Siebert-Evenstone, Joseph Michaelis, and Bilge Mutlu</li> <li>Professional Decision Making: Reframing Teachers' Work Using Epistemic Frame Theory by Mike Phillips, Amanda Siebert-Evenstone, Aaron Kessler, Dragan Gasevic, and David Williamson Shaffer</li> </ul>  | <b>Paper Sessions 4B: Case Studies in Quantitative Ethnography (2) (1 hour)</b><br><i>Moderator: Golnaz Arastoopour Irgens</i> <ul style="list-style-type: none"> <li>What Do Honor and Face Norms Have to Do with Peer Relations? Adolescents Make Sense of Revenge by Karin S. Frey, Hannah A. Nguyen, Saejin Kwak-Tanguay and Kaleb Germinaro</li> <li>Using Epistemic Networks to Analyze Self-regulated Learning in an Open-ended Problem-solving Environment by Luc Paquette, Theodore Grant, Yingbin Zhang, Gautam Biswas and Ryan Baker</li> </ul>   | <b>Symposium: Quantitative Ethnography in the Clinic (1 hour)</b><br><i>Sarah Jung, Vitaliy Popov, Andrew Ruis, Abigail Wooldridge and Szilvia Zörgő</i>   |
| 17:30            | 23:30        | 10:30         | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 18:00            | 0:00         | 11:00         | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 18:30            | 0:30         | 11:30         | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 19:00            | 1:00         | 12:00         | <b>Coffee with a Proffie 2 (1 hour)</b><br>This session will pair more senior members in the field with up-and-coming researchers to provide guidance and advice about research and career trajectories.   |  |  |
| 19:30            | 1:30         | 12:30         | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 20:00            | 2:00         | 13:00         | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |

## February 3, 2021

| Time             |              |               | Parallel Tracks   |         |         |  |  |  |
|------------------|--------------|---------------|---|---------|---------|--|--|--|
| US Central (CST) | London (GMT) | Sydney (AEDT) | Track A   | Track B | Track C |  |  |  |
| 10:30            | 16:30        | 3:30          | <b>Community Session 1 (1 hour)</b><br>This event is open to all and provides a chance for attendees to meet and discuss plans for the development of the QE community. |         |         |  |  |  |
| 11:00            | 17:00        | 4:00          |   |         |         |  |  |  |
| 11:30            | 17:30        | 4:30          |   |         |         |  |  |  |
| 12:00            | 18:00        | 5:00          | <b>Coffee Break / Open Chat Time (30 minutes)</b>   |         |         |  |  |  |
| 12:30            | 18:30        | 5:30          |   |         |         |  |  |  |
| 13:00            | 19:00        | 6:00          |   |         |         |  |  |  |
| 13:30            | 19:30        | 6:30          |   |         |         |  |  |  |
| 14:00            | 20:00        | 7:00          |   |         |         |  |  |  |
| 14:30            | 20:30        | 7:30          |   |         |         |  |  |  |
| 15:00            | 21:00        | 8:00          |   |         |         |  |  |  |
| 15:30            | 21:30        | 8:30          |   |         |         |  |  |  |
| 16:00            | 22:00        | 9:00          |   |         |         |  |  |  |
| 16:30            | 22:30        | 9:30          |   |         |         | <b>Keynote: QE Visualizations as Tools for Thinking (1:30 hours)</b><br><i>Simon Buckingham Shum</i> |  |  |
| 17:00            | 23:00        | 10:00         |   |         |         | <b>Coffee Break / Open Chat Time (30 minutes)</b>  |  |  |
| 17:30            | 23:30        | 10:30         | <b>Closing (1 hour)</b>   |         |         |  |  |  |
| 18:00            | 0:00         | 11:00         |   |         |         |  |  |  |
| 18:30            | 0:30         | 11:30         |   |         |         |  |  |  |
| 19:00            | 1:00         | 12:00         |   |         |         |  |  |  |
| 19:30            | 1:30         | 12:30         | <b>Community Session 2 (1 hour)</b><br>This event is open to all and provides a chance for attendees to meet and discuss plans for the development of the QE community. |         |         |  |  |  |
| 20:00            | 2:00         | 13:00         |   |         |         |  |  |  |

## February 4, 2021

| Time             |              |               | Parallel Tracks                                |         |         |  |  |  |
|------------------|--------------|---------------|--|---------|---------|--|--|--|
| US Central (CST) | London (GMT) | Sydney (AEDT) | Track A  | Track B | Track C |  |  |  |
| 12:00            | 18:00        | 5:00          | <b>Doctoral Consortium Session 2 (2 hours)</b> |         |         |  |  |  |
| 12:30            | 18:30        | 5:30          |  |         |         |  |  |  |
| 13:00            | 19:00        | 6:00          |  |         |         |  |  |  |
| 13:30            | 19:30        | 6:30          |  |         |         |  |  |  |
| 14:00            | 20:00        | 7:00          |  |         |         |  |  |  |
| 14:30            | 20:30        | 7:30          |  |         |         |  |  |  |
| 15:00            | 21:00        | 8:00          |  |         |         |  |  |  |
| 15:30            | 21:30        | 8:30          |  |         |         |  |  |  |
| 16:00            | 22:00        | 9:00          |  |         |         |  |  |  |
| 16:30            | 22:30        | 9:30          |  |         |         | <b>Early Career Workshop Session 2 (2 hours)</b> |  |  |
| 17:00            | 23:00        | 10:00         |  |         |         |  |  |  |
| 17:30            | 23:30        | 10:30         |  |         |         |  |  |  |