### GARRETT CHAN

MARKOV STATE MODEL
CONSTRUCTION THROUGH
KEPLER WORKFLOWS

NATIONAL TAIWAN UNIVERSITY TAIPEI

# Progress Made This Week

- Tried to findd a faster remote desktop system, since X11 is slow and makes using Kepler difficult even when using cipher, but had to continue using cipher
- Worked Dr. Malmstrom to elaborate next steps needed to complete the final components of the worfklow
- Tested viability of using visualization scripts with the current workflow

## Progress Made This Week

- Re-tested the last part of the workflow (BuildMSM.kar)
  - Needed to know if visualization scripts would work with workflow
  - Looked into changing the final stage of the workflow into a system that would work with any general system

## Plans for Next Week

- Finish organizing the back half of the workflow to meet the needs of building an MSM
- Combine and separate workflow components as needed
  - I will need more guidance on this, because I am unsure as to how the separate components can be used

### Successes

#### Roadblocks

Working with systems at UCSD can be slow, because the connection with MSMBuilder and Kepler is difficult to run over a remote desktop system

#### Successes

- Fabricated the final components of the entire MSMconstructing workflow system
- Tested newly created workflow components and retested components that had been made earlier; found that the workflows ran correctly

# Taiwan has some great museums



Left: Taipei 228 Memorial, commemorating the victims of the 228 Incident

Right: National Taiwan Museum, containing exhibits about the history of Taiwan

## I ate a lot of desserts this past week

Taiwan is known for its tropical fruits, such as passion fruit as litchi, so naturally, I had to get both in a cake.





The buns are delicious and soft and filled with sweet taro place

# A Big xièxie To:

- □ The Ledell Family for their generous scholarship
- Professor Rommie Amaro and Professor Jung-Hsin
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- Dr. Robert Malmstrom, for his guidance on MSM construction
- Teri Simas, Dr. Gabriele Wienhausen, and everyone at PRIME who made this program possible