Research at MPIDS

- Project studying energy decay in turbulence
- Active grid with individually movable paddles
- Programmed different movements into the paddles
- Measured how these different movements affected the energy decay of turbulence in a wind tunnel
Active grid and wind tunnel

- Part of the tunnel is actually Ludwig Prandtl’s original wind tunnel and is over 80 years old.
Most rewarding part of work

- Actual results!

- Found that coding the paddles in certain different ways had almost no effect on the energy decay

- However, one special way did produce a different energy decay than the others
Another view of the tunnel
Impact on the organization

- Hope to write/publish a paper on findings soon
- Built up some code that can be used by future students
- Students in future can continue our research
Goettingen, Germany
Impact on my future

- Before this summer, very unsure of graduate school/career in research
- Now strongly considering these two options, after talking with some of the graduate students at the institute
- Also, considering graduate school/working abroad in the future
Travels
Conclusion

- Overall very rewarding experience
- First time traveling in Europe
- Learned to speak some German
- Met a lot of locals and students from other universities
- Learned to survive on my own

- Hope to go abroad again in the future!