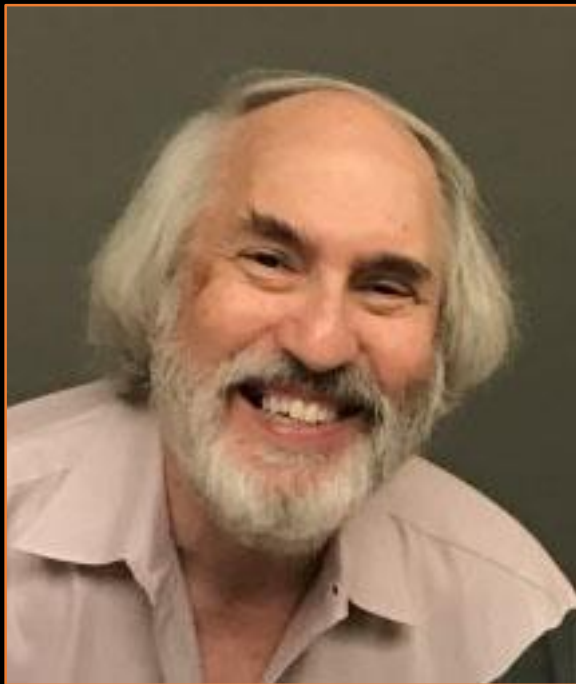


January 18, 2022  
Perspectives of Stanford Students with a Disability



# ENGR110/210

## Perspectives in Assistive Technology



David L. Jaffe, MS  
Instructor

16  
Years

# Questions?



# Students working on Team Projects



- Connect with team members
- Connect with your project suggestor
- Understand the problem with your project suggestor
- Search the web for information on the user group, disability condition, existing products / solutions

# Students working on projects



- Decide on team name and project title
- Assume the identity of an Investigative Reporter for Individual Project report projects
- Schedule weekly progress checks, alternating between Zoom meeting with me and Bennett and submitting informal written progress reports
- Do not hesitate to ask questions

# Students not working on projects

- Attend and reflect on class sessions
- Do not hesitate to ask questions



# Age-related Disabilities

What you **missed** because you were “Born Too Late”

- Music: Beatles, Rolling Stones, Motown, Classic Rock
- People: JFK, MLK (I have a dream)
- Events: Woodstock, The Summer of Love, Moon Landing
- Sports: “The Catch”
- Introduction of Color TV, TouchTone phone



# Age-related Disabilities

What you **avoided** because you were “Born Too Late”

- War in Vietnam
- The draft
- Political unrest
- Nixon
- The Cuban Missile Crisis



# Attendance Sheet, Evaluation Form, and Meet with Dave Signup



For all students:

- Sign Attendance Sheet - important to verify your attendance
- Sign up to meet with Dave (Zoom or in-person) for lecture makeup and project update discussions

For everyone:

- Fill out Class Session Evaluation Form - this provides feedback to guest lecturer







Imagine a town  
full of physically impaired people,

[Play video](#)

Thursday, January 20th



*Improving Home Environments for Older Adults*

Matteo Zallio, M.Arch, PhD

Fulbright Scholar

# Today



## Perspectives of Stanford Students and Faculty with a Disability



Cricket Bidleman

Mary Cooper

Tilly Griffiths

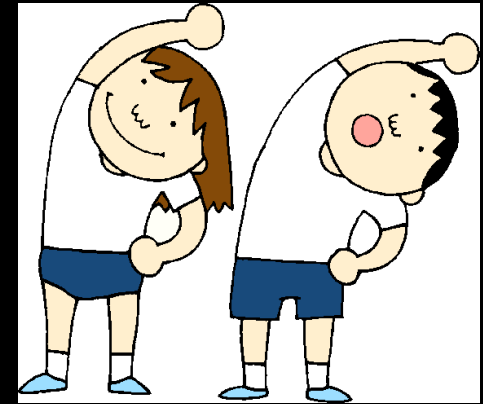
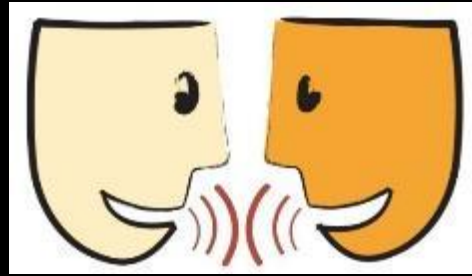
Gene Kim

Bhavya Shah

Erik Sibley

# Break Activities

- Attendance sheet
- Stand up and stretch
- Take a bio-break
- Text message
- Web-surf
- Respond to email
- Talk with classmates
- Reflect on what was presented in class





SOCIAL  
MEDIA  
BREAK





# Today



## Perspectives of Stanford Students and Faculty with a Disability



Cricket Bidleman

Mary Cooper

Tilly Griffiths

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Bhavya Shah

Erik Sibley



# Cricket Bidleman



Cricket Xiao Jiu Bidleman is a graduate student in Journalism who is a passionate disability advocate deeply concerned with accessibility and disability justice. She hopes to pursue a career combining activism and journalism to improve the rights of people with a disability and others belonging to marginalized groups. Cricket writes for The Stanford Daily and is a podcaster, musician, techie, and baker.





# Mary Cooper



Mary Kate Cooper is a Senior pursuing degrees in Aerospace Engineering & Computer Science. She is a member of Pi Beta Phi, an official Stanford tour guide, and a member of the Division 1 reigning Lightweight National Champion Rowing team. As a below-the-knee amputee, life has naturally pushed Mary to think outside the box. She is the proud owner of several high-performance, light-weight carbon fiber legs and believes being an amputee has given her a unique perspective and helped shape her problem-solving skills. Most recently, Mary was part of a Zero Gravity flight to research accessible space flight solutions called Mission AstroAccess. Looking forward, she would like to be a ParaAstronaut while lowering the barrier to entry for human spaceflight.



Mary Cooper





# Gene Kim



Gene Sung-Ho Kim is a Junior exploring Symbolic Systems, Creative Writing, and Mechanical Engineering as potential areas of study. Due to a genetic retinal detachment condition, he gradually lost his sight while growing up, and became completely blind during his sophomore year of high school. Although challenging at times, alternative approaches to engaging with the world has enabled him to serve as a summer camp counselor, learn how to speed-solve Rubik's cubes, compete in the National Japan Bowl competition, and pursue his other academic and personal interests. Currently, he serves as secretary for the California Association of Blind Students (affiliated with the National Federation of the Blind of California), which is an activism and support community. For the future, he is interested in helping pioneer new assistive technologies to increase the scope and quality of accessible living for those who are impaired.



# Bavya Shah

Bhavya Ashush Shah is a Sophomore at Stanford studying Mathematical and Computational Science with interests in education, disability studies, and oral communication. He is an active member of Stanford's Debate Society and Ethics Bowl teams. Outside of academics, he enjoys watching Indian standup comedy, having meaningful conversations, and eating spicy food.





# Tilly Griffiths

Tilly Kennedy Griffiths is an international student from the United Kingdom and is a junior pursuing a double-major in Political Science and Communication. Shortly following her first birthday, Tilly was diagnosed with a neuromuscular condition called Spinal Muscular Atrophy (Type II), meaning she is a full-time power wheelchair user and relies on physical support with all aspects of daily life. However, since the age of 12 she aspired to cross the Atlantic and attend university in California, and her participation in the Sutton Trust US Programme for low-income, high-achieving students brought her to Stanford. She is a passionate advocate for people with disabilities, so far raising in excess of \$7 million to ensure that young people can access the best wheelchairs to help them achieve their goals, and on campus she serves as the ASSU Director of Disability Advocacy. Tilly has written extensively for The Stanford Daily on issues relating to accessibility and inclusion since her freshman year, and continues to highlight the experiences of the disability community on campus as an opinion columnist.

Hello!

Tilly Griffiths

ENGR 110: Perspectives in Assistive Technology

## spinal muscular atrophy (SMA):

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“A genetic neuromuscular disorder that affects the nerve cells that control voluntary movement, causing progressive muscle weakness and loss of movement due to muscle wasting (atrophy).” – *Genetic and Rare Diseases Information Center*



### **Type I**

*unable to sit unaided; unlikely to live beyond 2 years due to acute respiratory weakness*

### **Type II**

*unable to crawl, stand or walk unaided; normal life expectancy with ongoing medical intervention to manage respiratory crises*

### **Type III**

*able to walk during early childhood; normal life expectancy with ongoing medical intervention to manage respiratory crises*

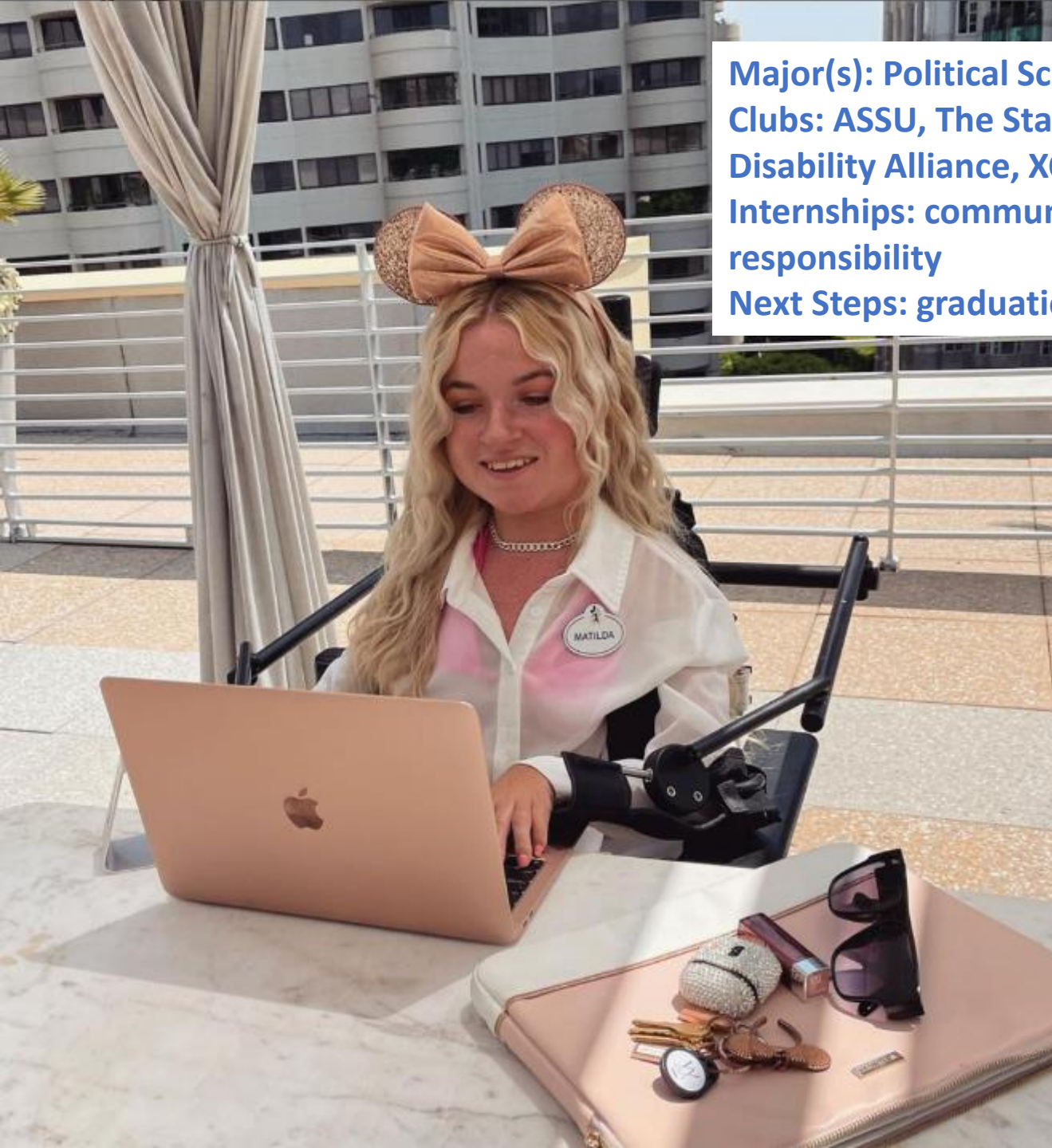




# Accessibility | Inclusion



**Major(s):** Political Science and Communication  
**Clubs:** ASSU, The Stanford Daily, Stanford Disability Alliance, XO  
**Internships:** communications, corporate social responsibility  
**Next Steps:** graduation :( gap year, law school





## Eric Sibley

Dr. Eric Sibley is a pediatric gastroenterologist affiliated with multiple hospitals, including Lucile Packard Children's Hospital Stanford and Stanford Health Care - Stanford Hospital. He received his medical degree from Johns Hopkins University and has been in practice for more than 25 years.

