



HUSKYADAPT

ACCESSIBLE DESIGN AND PLAY TECHNOLOGY

ANNUAL REPORT 2019-2020

PUBLISHED ON AUGUST 15, 2020



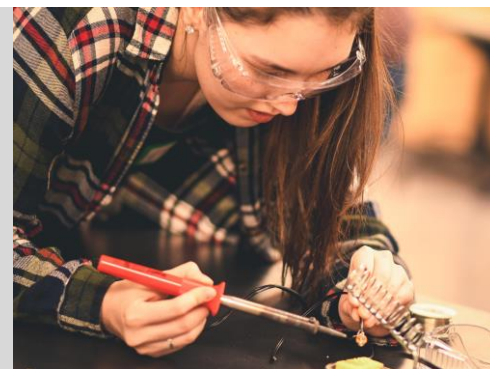
HUSKYADAPT

AT A GLANCE



MISSION

HuskyADAPT fosters an **inclusive, sustainable, and multidisciplinary community** supporting accessible design and play technology through toy adaptation, design, and community engagement.



TOY ADAPTATION

Adapting and donating accessible toys to clinics, schools, and families



DESIGN

Identifying accessibility needs and developing solutions

COMMUNITY ENGAGEMENT

Engaging with community members such as K-12 students, clinicians, engineers, and teachers to adapt toys or design

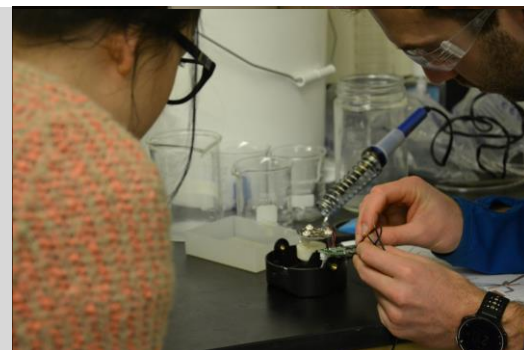


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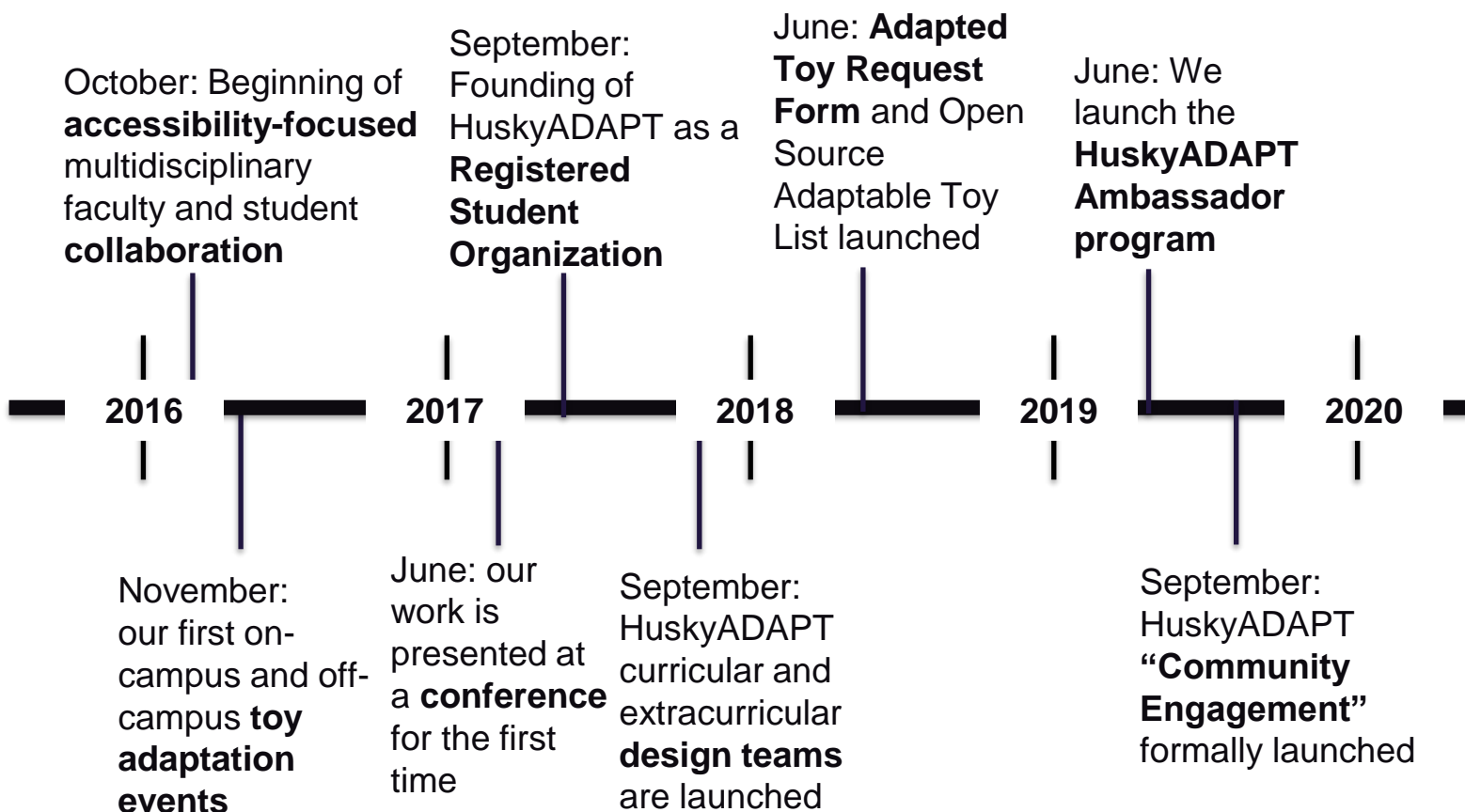
HISTORY OF HUSKYADAPT



The interdepartmental student-faculty collaborations that laid the groundwork for HuskyADAPT began in October 2016. Since then, we have grown, launching and improving programs each year. Some highlights are shown on the timeline below.



TIMELINE



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TOY ADAPTATION: AN OVERVIEW

WHY?

Toys are developmentally important, but not all toys are accessible to all users. We adapt toys, adding an alternative activation port so that the toy can be activated in ways that work for more users.



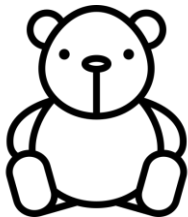
BY THE NUMBERS

Toy adaptation is a win-win. It benefits the toy recipient and it benefits student toy adapters by teaching them technical and conceptual skills and engaging them in broader conversations about accessibility and inclusivity.

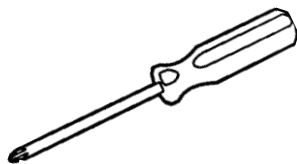
From 2016-2020:



416 UW STUDENTS HAVE LEARNED TOY ADAPTATION



690 TOYS HAVE BEEN ADAPTED



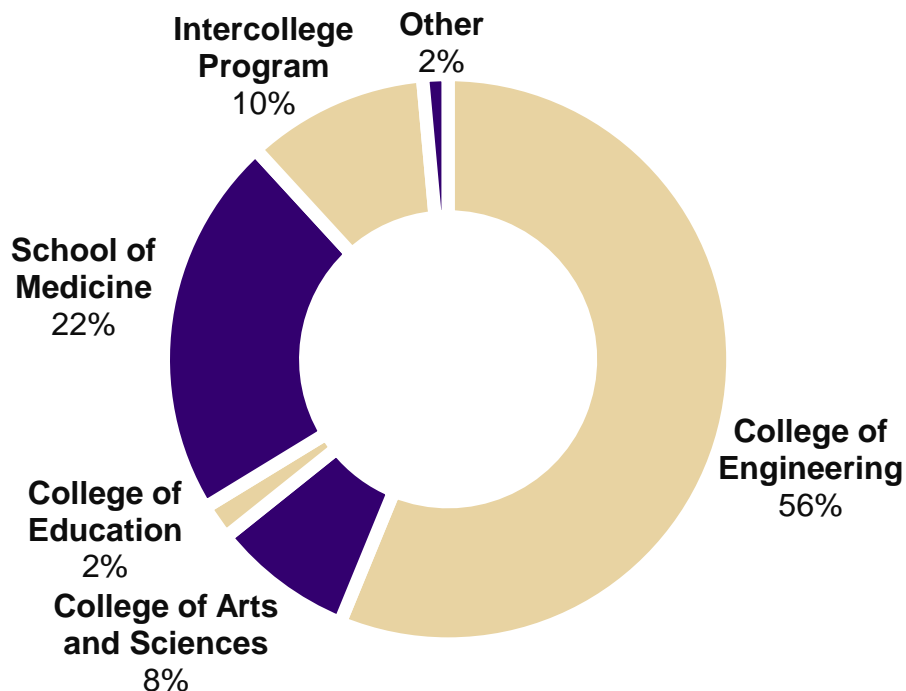
60 TOY ADAPTATION WORKSHOPS HAVE BEEN HELD

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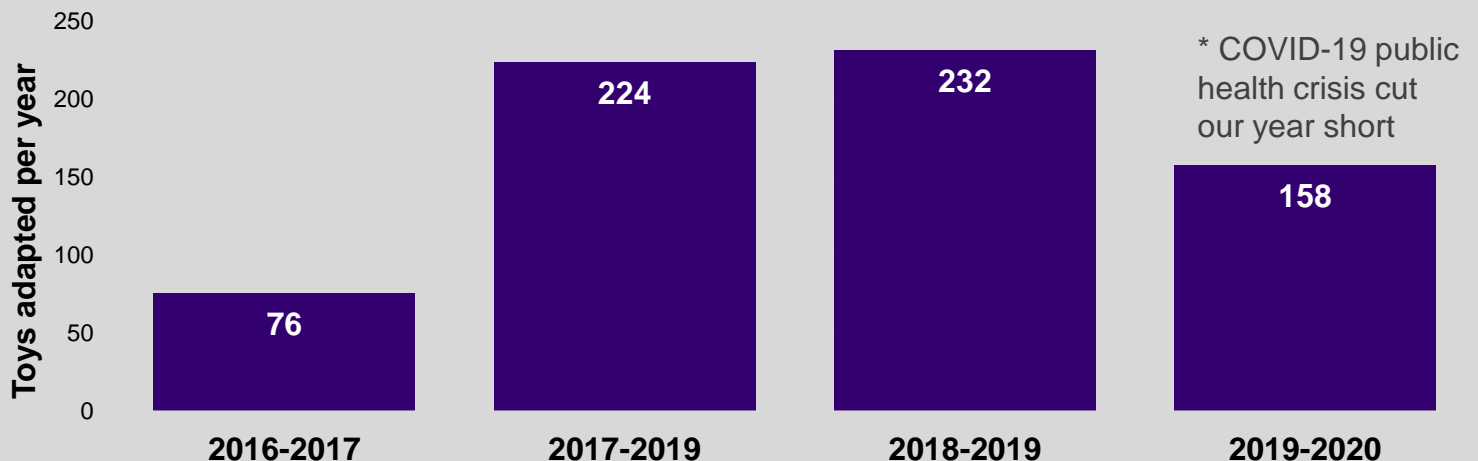
TOY ADAPTERS & **W** PRODUCTION

WHO IS ADAPTING THE TOYS?

70% undergraduate and 30% graduate students from:



HOW MANY TOYS HAVE BEEN ADAPTED?



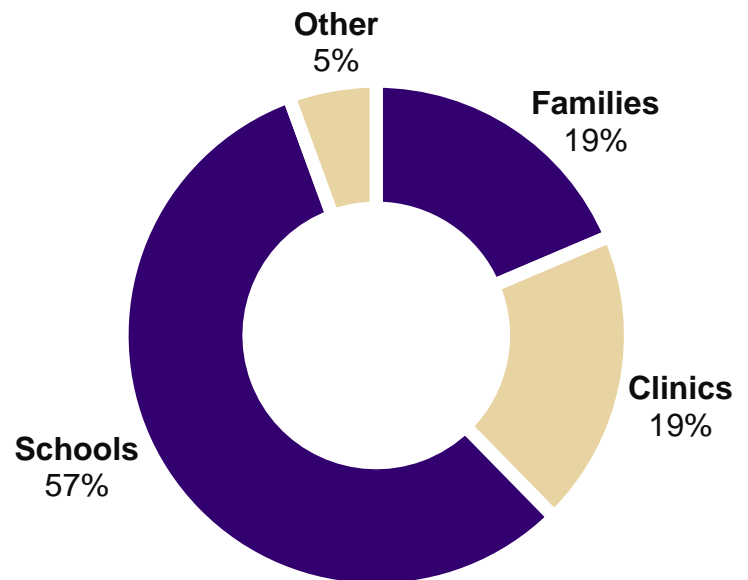
TO LEARN MORE, VISIT OUR WEBSITE AT [DEPTS.WASHINGTON.EDU/ADAPTUW](https://depts.washington.edu/adaptuw) OR CONTACT US AT ADAPTUW@UW.EDU

TOY DONATION: WHO AND WHERE?

WHO RECEIVES THE ADAPTED TOYS?

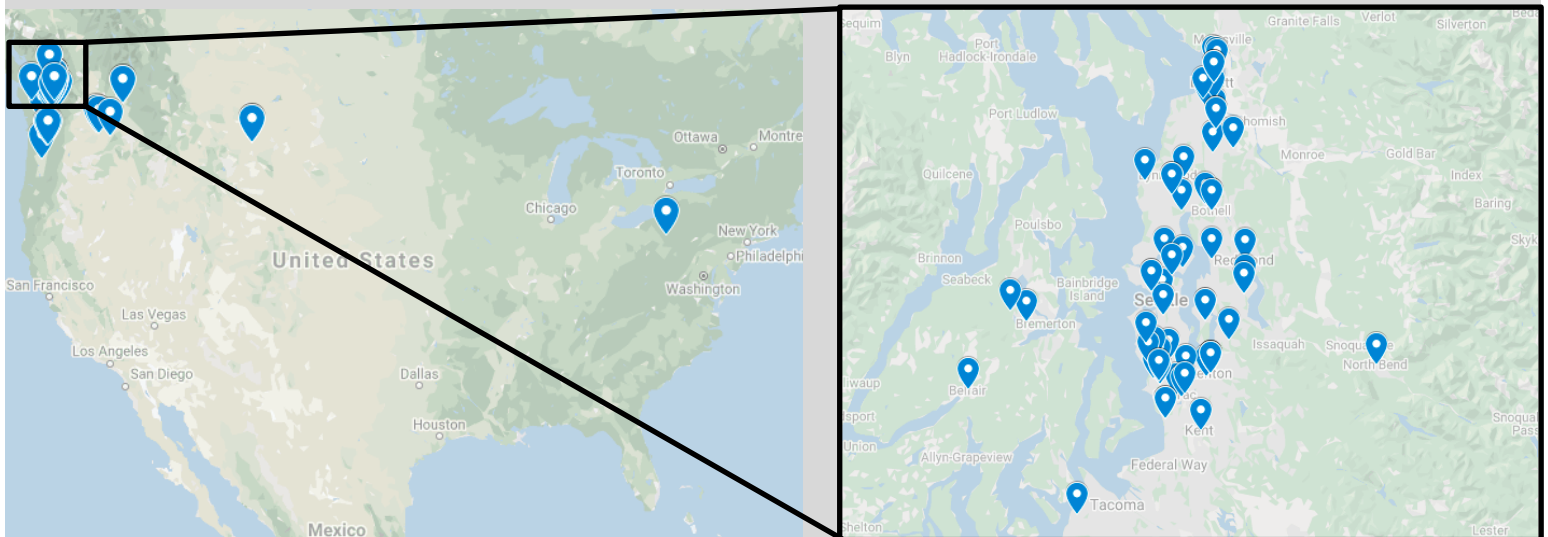
We donate toys at no cost to families, schools, clinics, and more in the Seattle area.

If you are interested in receiving a free adapted toy, please complete the form on our website > [toy adaptation](#) > [request adapted toys](#).



WHERE DO THE ADAPTED TOYS GO?

Toys have been donated to **80** unique locations nationwide, mostly in the Greater Seattle area.



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DESIGN: AN OVERVIEW



WHY?

Toys aren't the only items inaccessible to all users. We create and mentor design teams who work with community co-designers to define and develop solutions to accessibility problems in our community.



BY THE NUMBERS

Design has the opportunity to make our community and our world more accessible while also teaching students technical and conceptual skills and engaging them in broader conversations about accessibility and inclusivity.

From 2017-2020:



202 UW STUDENTS HAVE BEEN ON A DESIGN TEAM



44 DESIGN TEAMS HAVE BEEN CREATED AND MENTORED

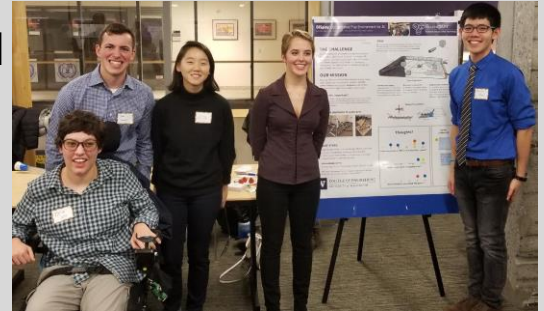
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DESIGN TEAM PERSONNEL



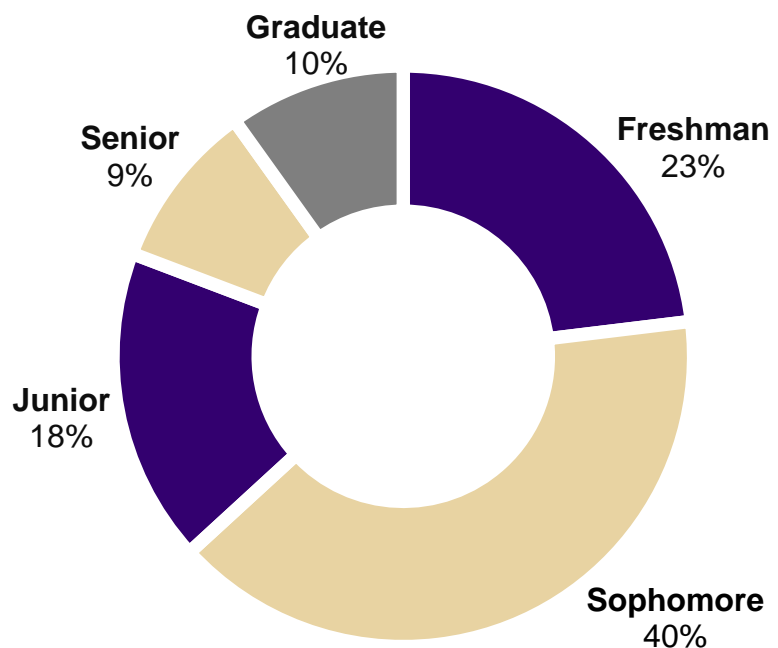
WHO IS ON DESIGN TEAMS?

Teams are multidisciplinary and are composed of undergraduate and graduate students of different majors.



27 UNIQUE MAJORS, MOST COMMONLY:

- ENGINEERING UNDECLARED/PRE-ENGINEERING
- HUMAN-CENTERED DESIGN ENGINEERING
- MECHANICAL ENGINEERING
- COMPUTER SCIENCE
- BIOENGINEERING
- ELECTRICAL & COMPUTER ENGINEERING
- INFORMATICS
- OCCUPATIONAL THERAPY
- INDUSTRIAL ENGINEERING
- MATERIALS SCIENCE & ENGINEERING



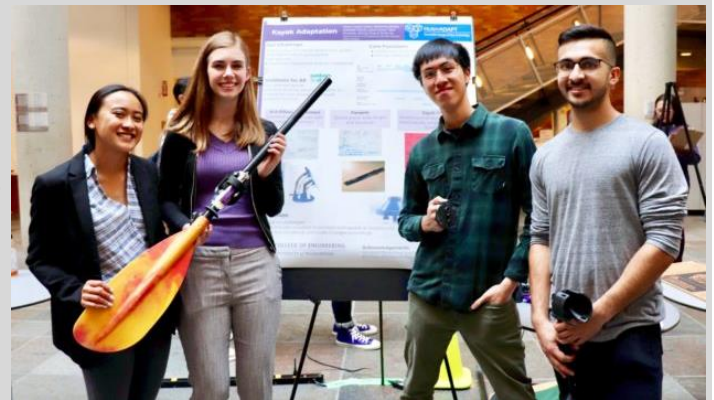
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DESIGN BY YEAR



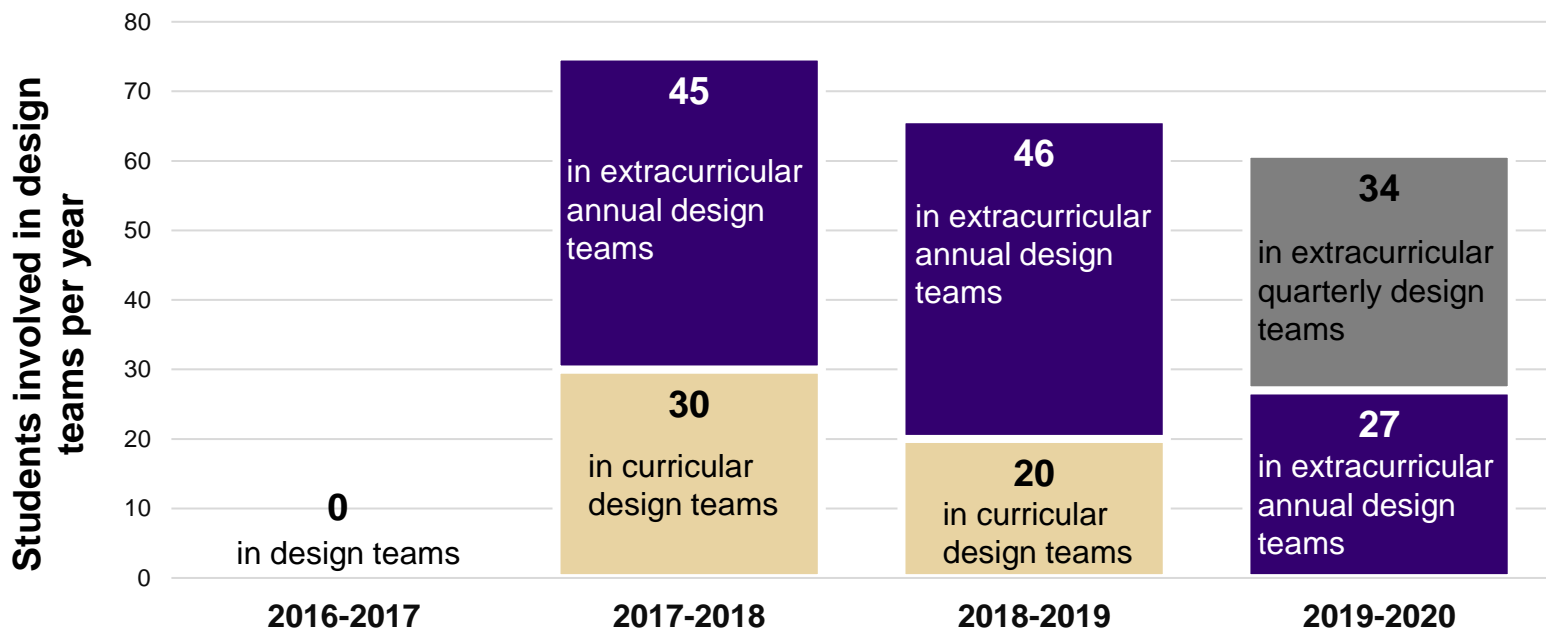
WHAT ARE SOME EXAMPLES OF PROBLEMS TACKLED BY DESIGN TEAMS?

- Kayak adaptation for individuals with upper limb differences
- Oriented stylus for people with muscular impairments or cognitive disabilities
- Adapted Xbox controller for users with less fine motor control
- Fall monitoring device to increase safety and independence
- Bike alignment attachments for individuals with spasticity



Leslie Fisher Photo

HOW MANY STUDENTS HAVE BEEN ON DESIGN TEAMS EACH YEAR?



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COMMUNITY ENGAGEMENT: AN OVERVIEW



WHY?

Engaging with community members such as K-12 students, clinicians, engineers, and teachers furthers our mission of fostering an **inclusive, sustainable, and multidisciplinary community** supporting accessible design and play technology.



NEW COLLABORATIONS BY YEAR

2016-2017

Taskar Center for Accessible Technology (TCAT)
UW Math Academy
Valley Medical Center

2017-2018

Chestnut Hill Academy
Disabilities, Opportunities, Internetworking,
and Technology (DO-IT)
Expanding Your Horizons (EYH) Conference
GoBabyGoSeattle
Inglemoor High School
UW Women in Science & Engineering

2018-2019

American Association of University Women
Girl Scouts
Infant and Early Childhood Conference
King County Library System
Microsoft
UW Minority Scholars Engineering Program

2019-2020

Google
Interlake Saints Robotics Team
Lincoln High School
St. Margaret's Episcopal School



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COMMUNITY ENGAGEMENT: SPREADING THE WORD



WHERE?

In addition to event collaborations in the Seattle area, we travel to present at conferences and other events.

From 2016-2020:



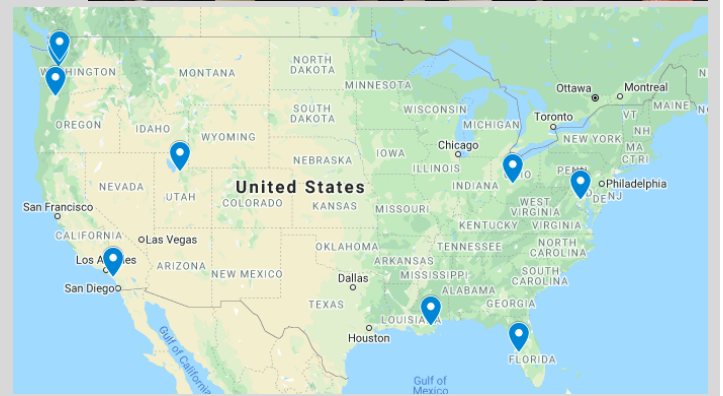
15 CONFERENCE PRESENTATIONS



10 UNIQUE CITIES



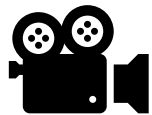
4 PEER-REVIEWED
CONFERENCE
PUBLICATIONS



HOW ELSE DO WE CONNECT?



1,085 RECIPIENTS OF OUR NEWSLETTER, SENT VIA EMAIL EVERY OTHER WEEK



35,000+ VIEWS ON OUR YOUTUBE ACCOUNT



ON SOCIAL MEDIA @HUSKYADAPT



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CONTACT US AT ADAPTUW@UW.EDU

UNIVERSITY of WASHINGTON

HUSKYADAPT TEAM 2019-2020



STUDENT EXECUTIVE BOARD



Molly Mollica,
Student Chair



Alyssa Spomer, Toy
Adaptation Chair



Avry Freaney, Toy
Adaptation Chair



Karley Benoff,
Design Chair



Will Lin,
Design Chair



Collin Pernu, Community
Engagement Chair



Johanna Dickie,
Communication Chair



Nicole Zaino,
Communication Chair



Alissa Acheson,
Communication Chair



AJ Kruse, Community
Engagement Chair

AMBASSADORS



Aisha Azmi



Anushri
Ramanath



Jay Lin



John Pomeroy



Katherine Zhao



Natalie
VanDevanter



Samantha Mak



Wendy Schnare

FACULTY



Kat Steele,
PhD



Dianne Hendricks,
PhD



Heather Feldner,
DPT, PhD, PCS



Anat Caspi,
PhD



Shawn Rundell,
DPT



Jennifer
Mankoff, PhD



George Zatloka

HUSKYADAPT FOUNDERS & FORMER LEADERS



2016-17 HUSKYADAPT LEADERSHIP



Molly Mollica,
MS



Dianne
Hendricks, PhD



Kat Steele, PhD



Heather Feldner,
DPT, PhD, PCS



Anat Caspi,
PhD



Shawn Rundell,
DPT

2016-17 WASHINGTON HAS ADAPTED TOYS (WHAT)



Alexander
Novokhodko



Roujia
Wang



Philip Lee



Moritz Lange

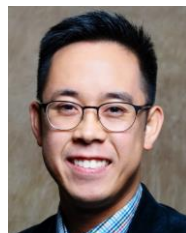
2017-18 FOUNDING STUDENT EXECUTIVE BOARD



Brianna Goodwin



Molly Mollica



Brandon Nguyen



Jessica Zistatszis



Karley Benoff



Kelly Xu



Nataliya
Rokhmanova

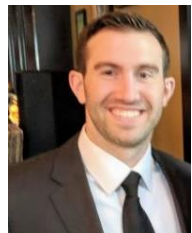
2018-19 STUDENT EXECUTIVE BOARD



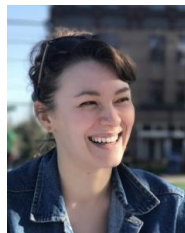
Molly Mollica



Alyssa Spomer



Dylan Reinsdorf



Nataliya
Rokhmanova



Olivia Rodriguez



Lien White



AJ Kruse

HOW TO GET INVOLVED



IF YOU'RE A UW STUDENT:

HuskyADAPT is always looking for new UW students to get involved! We welcome all majors and levels of experience. You could get involved by:

1) **ATTENDING A TOY ADAPTATION EVENT** to adapt toys for users with disabilities. This is a one-time, two-hour commitment.



2) **JOINING A DESIGN TEAM** to solve an accessibility problem in our community. This is a year-long, five-hour/week commitment

3) **PARTICIPATING** in another HuskyADAPT event, such as a seminar or design showcase. These are typically one-time, one-hour commitments.

4) **FOLLOWING US ON SOCIAL MEDIA** (Facebook, Instagram, and Twitter) via @HuskyADAPT

5) **SIGNING UP TO RECEIVE THE HUSKYADAPT NEWSLETTER** on the front page of our website: depts.washington.edu/adaptuw. All event advertisements and signups are in the HuskyADAPT newsletter, which is emailed every other week.



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HOW TO GET INVOLVED



IF YOU'RE A SEATTLE COMMUNITY MEMBER:

Thank you for your interest in HuskyADAPT!
You could get involved by:

1) **REQUESTING A FREE ADAPTED TOY** for a family, clinic, school, or other organization. Please complete the adapted toy request form on our website > toy adaptation > request adapted toys and we will contact you about picking up your free adapted toys.

2) **SUGGESTING AN ACCESSIBILITY CHALLENGE FOR OUR DESIGN TEAMS** to tackle. please complete the form on our website > design > submit a challenge.

3) **HOSTING A TOY ADAPTATION EVENT** at your workplace or within another group. Please complete the form on our website > toy adaptation > host a workshop.

4) **SIGNING UP TO RECEIVE OUR NEWSLETTER AND FOLLOWING US ON SOCIAL MEDIA**. All event advertisements and signups are in the HuskyADAPT Newsletter, which is emailed every other week. Sign up to receive the newsletter on the front page of our website: depts.washington.edu/adaptuw. You can find us on Facebook, Instagram, and Twitter (@HuskyADAPT).

5) **DONATING** to HuskyADAPT. Most of our work is funded by generous donors. You can support us by:

- a) donating at giving.uw.edu/huskyadapt
- b) mailing a check to HuskyADAPT, please contact us to coordinate
- c) making a donation via Venmo @HuskyADAPT



TO LEARN MORE, VISIT OUR WEBSITE AT DEPTS.WASHINGTON.EDU/ADAPTUW OR CONTACT US AT ADAPTUW@UW.EDU

OUR FUNDERS AND SUPPORTERS **W**

COLLEGE OF
ENGINEERING



**HUSKY
SEED FUND**

AccessEngineering

National Science Foundation (EEC-1444961)

STUDENT
ACTIVITIES
OFFICE



**WELLS
FARGO**

OUR GENEROUS INDIVIDUAL DONORS, ESPECIALLY

TOM AND CAROLEE MATHERS

HELEN AND MILO MUTERSPAUGH

A SPECIAL TRIBUTE TO CAROLEE MATHERS

We are sad to share that HuskyADAPT lost one of our biggest supporters and cheerleaders. **Carolee Mathers**, a UW alumni and veteran teacher, passed away peacefully in December 2019. Her constant optimism, encouragement, and dedication to hands-on learning will continue to provide inspiration and support for HuskyADAPT. Carolee and her husband, Tom, helped to launch HuskyADAPT: mentoring design teams, attending design showcases, and providing constant support and enthusiasm. Thank you Carolee & Tom for all you've done for HuskyADAPT!



TO DONATE, VISIT [GIVING.UW.EDU/HUSKYADAPT](https://giving.uw.edu/huskyadapt)