

Microsoft® Research WorldWide Telescope

WorldWide Telescope (WWT) is a rich visualization environment that functions as a virtual telescope, allowing anyone to make use of real astronomical data to explore and understand the Universe.



The **WWT Ambassadors Program** uses WWT as a future-leaning way to teach and learn STEM concepts by recruiting and training astrophysically-literate volunteers to be experts in using WWT as a teaching tool. Ambassadors and learners alike use WWT to create dynamic, interactive “Tours” of the Universe, which are shared in schools, public venues, and online. Ambassador-created tours are freely available and centrally managed in order to form a comprehensive learning resource for Astronomy and Astrophysics. With NSF funding, WWT team members are creating WWT-based lab experiences for K-12 and college students. WWT content is searchable and materials are distributed online from popular websites such as BetterLesson.com.

Impact WWT provides the tools and framework to revolutionize STEM education by offering students, learners, and educators:

- unprecedented access to astronomical data, allowing them to experience the thrill of discovery that comes from exploring and understanding our universe;
- tours that guide and encourage learners to engage actively with the material;
- the ability to explore the universe in three dimensions, helping them visualize ideas that are otherwise challenging to understand through traditional media; and
- a rich visualization interface which can be transferred to other subject areas of science that also support advancement in the Natural Sciences or Engineering.

Leadership & Funding Harvard Professor Alyssa Goodman leads the WWT Ambassadors Program. Her core team includes Patricia Udomprasert, Ph.D., WWT Project Director. Curtis Wong, creator of WWT and Head of MSR Next Media Group, is helping to guide the Ambassadors program on behalf of Microsoft Research. Laura Trouille is leading the expansion of WWT to the Chicago area. WWT is funded by Microsoft Research and the National Science Foundation.



Download WWT for free at
www.worldwidetelescope.org

Find out more about WWT
Ambassadors at
wwtambassadors.org

email for more information at
pudompra@cfa.harvard.edu





Become an Ambassador!

- Are you looking for ways to share your passion for astronomy with the public?
- Do you work with schools and science teachers?
- Are you affiliated with a planetarium?
- Do you do EPO work for a telescope or space mission?

For more information:

Email Pat Udomprasert at pudompra@cfa.harvard.edu



Or go to <https://wwtambassadors.org/wwt/ambassadors>



WWT in K12 Education

- Do you teach K12 science, or work with teachers who do?

Learn about using WWT in K12 education at <https://wwtambassadors.org/wwt/wwt-education>



WWT in Cyberlearning Research

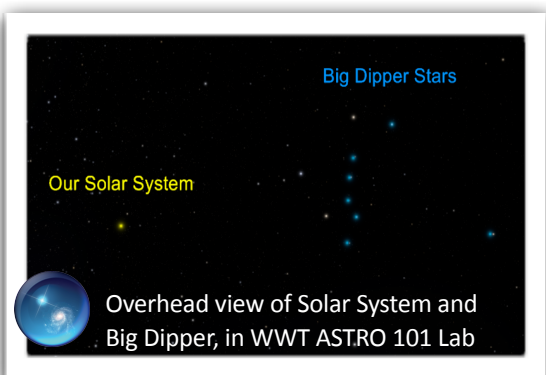
- Are you a science education researcher interested in use of visualization technology in classrooms?

Learn about our group's research on using WWT as a Cyberlearning tool at

<https://wwtambassadors.org/wwt/WWT-MoonPhasesVizLab>



Funding for this research was provided by NSF (Award Number IIS-1254535).



WWT in ASTRO 101

- Do you teach Gen Ed introductory astronomy courses?
- Ned Ladd at Bucknell University is leading an effort to develop WWT-based lab materials for ASTRO 101 courses.

Learn more about this work at

<https://wwtambassadors.org/wwt/astro101>



Funding for this research was provided by NSF (Award Number DUE-1140440).