

# DIVYA VATSA

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## SUMMARY

- BASIS Scottsdale Class of 2017; Distinguished Honor Roll; Expected to graduate with High Honors
- STEM advocate and Founder of STEMxCHANGE
- Gender equality champion and President of She's the First BASIS Scottsdale
- Computational biology and neuroscience research; independent research on gender perceptions

## EDUCATION

- BASIS Scottsdale: Current Weighted GPA: 4.90/5.00; Un-Weighted GPA: 4.00/4.00
  - **Capstone (Accelerated) Classes:** Capstone Biology - Advanced Topics, Capstone Chemistry - Organic Chemistry, Capstone Math - Introduction to Category Theory
  - **Advanced Placement Classes:** AP Capstone Research, AP Statistics, AP Chemistry, AP Computer Science, AP Biology, AP Physics B, AP Calculus AB/BC, AP Capstone Seminar, Post AP Math Complex Analysis, Post AP Anatomy and Physiology
  - **Honors Classes:** Honors Chemistry, Honors Biology
- Standardized Test Scores: SAT I (2350/2400) | SAT II (800 Chemistry, 800 Math-II, 790 Biology M) | PSAT National Merit Semifinalist | National AP Scholar

## RESEARCH EXPERIENCE

- **Research Science Institute (RSI)** (2016 – Present): Summer Intern at the Boston Children's Hospital (Computational Health Informatics Program) under the direction of Dr. Gil Alterovitz – “Creating an Automated Prediction Model for Chemotherapy Treatment Regimens through Molecular Feature Selection”
- **Barrow Neurological Institute** (2014 – Present): Student Researcher at the Neuroimaging Lab under the direction of Dr. Leslie Baxter – “Cognitive and Brain Measures in Middle-Aged Autistic Spectrum Disorder Individuals” (pending publication)
- **Independent Research** (2015): “Gender Equality in the Digital Age”

## MAJOR AWARDS

### RESEARCH

- 2016: Research Science Institute Scholar: Top 82 high school juniors in the world selected to attend a fully paid six-week research program through Center for Excellence in Education (CEE) at MIT
- 2016: Intel International Science and Engineering Fair (ISEF) Finalist
- 2016: American Psychological Association Outstanding Research in Psychological Science 3rd Place at ISEF; ASU New American Provost Scholarship at ISEF
- 2016: Arizona Science and Engineering Fair (AzSEF) Grand Award Winner and 1<sup>st</sup> Place Behavioral Sciences; University of Arizona AzSEF Best in Fair
- 2016: Future Innovator of the Year Nominee – Arizona Technology Council
- 2015: Siemens Science Competition Semifinalist – Top 300 projects in the country
- 2015: Google Science Fair Regional Finalist – Top 90 finalists around the world
- 2015: American Statistical Association High School Champion Senior Division at AzSEF; American Psychological Association Research Achievement Award at AzSEF

### ACADEMIC

- 2015, 2016: BASIS Scottsdale Student of the Year Award – granted to the student in each class who best exemplifies qualities such as intellectual excellence, leadership, and community service
- 2015, 2016: National AP Scholar and AP Scholar with Distinction Award; AP Scholar with Honors (2014)
- 2016: Semi-Finalist in the National Merit Scholarship Program
- 2016: WordWright Distinguished Achievement: (perfect score) 1 of only 3 high-school juniors in the country
- 2016: United States National Chemistry Olympiad – National Exam Qualifier

- 2015: Scholastic Art and Writing Award – Silver Key Award

### OTHER

- 2014, 2015: National Center for Women and Information Technology (NCWIT) National Runner-Up (3100+ applicants) and Arizona State Champion
- 2015: Grant of \$3,000 from NCWIT to advance STEM in the local community
- 2015: She's The First - Townsend National Student Leader of the Year
- 2015: Maricopa County Youth STEM Role Model
- 2016: Prudential Spirit of Community Awards Honoree
- 2015: The President's Volunteer Service Award
- 2014: Bharatnatyam Arangetram (graduation after 10 years of rigorous training in Classical Indian dance)

### EXTRACURRICULAR ACTIVITIES

- **STEMxCHANGE** (2015-Present) – Non Profit 501 (c)(3) – CEO and Founder
  - Organization with the mission of empowering youth through STEM mentorship; received a \$3,000 grant from NCWIT to promote STEM; partnered with the local Boys and Girls Club to teach computer programming to 15 middle school girls in a year-round program; collected 15 refurbished laptops from local businesses and deployed them at afterschool programs through mobile lab
- **She's the First BASIS Scottsdale** (2014-Present) – President and Founder
  - Service organization with the mission of empowering girls through literacy campaigns; lead a 20-member team; fundraised over \$8,000 to sponsor education of 8 girls in low-income communities around the world; awarded Townsend National Student Leader of the Year
- **AZA Dance Production** (2014-Present) – Co-Founder of AZA (meaning Hope)
  - Promote gender equality through the medium of dance; raised over \$7,000; perform at community outreach events including American Muslim Women's Association Annual Gala
- **Scientific Enrichment Program for Students** (2014-Present) – Student Researcher
  - 1 of 7 high school students in Arizona selected to year round research program at Barrow Neurological Institute; awardee at Siemens Science Competition and Intel ISEF
- **National Honor Society** (2014-Present) – Secretary of Executive Board
  - Elected as Secretary by peers in 11<sup>th</sup> grade; responsible for all correspondence; leader/participant in service events in Phoenix, such as St. Mary's Food Bank and Barton House
- **The BASIS Gazette** (2013-Present) – Columnist and Web Development Leader
  - Creator/developer of online format; oversee Web Development team and manage monthly website publication; promote website; write monthly articles for Science and Technology column
- **Science Bowl** (2013-Present) – Co-Captain of A Team
  - Organize/moderate weekly practices; specialize in chemistry, math, and biology questions; participate in inter-BASIS and regional competitions
- **Sampradaya Dance School of India** (2004-Present) – Senior Level Dancer and Teacher
  - 12-year trainee in Indian classical dance; graduated in 2014 with 3-hour solo debut performance (Arangetram); solo/group performer; teacher/choreographer
- **BASIS Scottsdale and greater community** (2011-Present) – Peer Tutor
  - After-school peer tutor for 5th-8th graders in all subjects; assist w/ test prep and advanced concepts; independent tutor on weekends in STEM
- **BASIS Ambassadors** (2016-Present) – Co-Founder
  - Selected to serve as student representative for school; oversee peer mentoring programs; provide advice to students and parents; give guided tours

### COMPUTER SKILLS

**Languages:** Python, R (Machine Learning), Java, HTML, CSS, JavaScript, Alice, MATLAB, LaTeX

**Applications:** Adobe Photoshop, iMovie, Windows Movie Maker, Wix, XCode, Squarespace, Statistical Parametric Mapping (SPM) in MATLAB, Microsoft Office Suite, Google Drive