



Rajat Bhageria

Sophomore at **University of Pennsylvania**

Lives in Cincinnati, OH

Participated in **3 Years of research** throughout high school
(initially dependent, later independent)
with Dr. Boolchand at University of Cincinnati

Education:

Sycamore High School, Cincinnati, OH
University of Pennsylvania, BSE

Email: Rajat@seas.upenn.edu

Journal Publications (in high school):

- **R. Bhageria**, K. Gunasekera, P. Boolchand and M. Micoulaut, "*Fragility and molar volumes of non-stoichiometric chalcogenides – the crucial role of melt/glass homogenization*," Physica Status Solidi B, 1-8 (2014).
- **R. Bhageria**, "*Self Healing Concrete*," Ohio Journal of Science 114, 27 (2014).

Conference Proceedings (in high school):

- K. Vignarooban, M. Malki, M. Micoulaut, W. Bresser, R. Kerner, **R. Bhageria**, V. William, P. Boolchand, "*Evidence for Self-Organization in Li- and Na-Borate Glasses*," The American Ceramic Society Glass & Optical Materials Division Meeting, June 2013.

Achievements and Honors:

- **Patent Pending:** "*Modular Sofa Integrated with Entertainment Center*", U.S. Patent Application 61805823, Filed 2013.
- **Founder/CEO at ThirdEye (ThirdEyeGlass.com):** Product that empowers visually impaired persons what they are looking at.
- **Finalist at PennAppsX World's Largest Hackathon and Wharton Business Plan Competition**
- **Siemens Competition Semi-Finalist**--"Foremost national research competition for high-school students"
- **Founder** at CafeMocha.org – A social-network that allows students to publish their creative research, essays, & poetry, and share it with the world. Conceptualized, planned, and designed website.
- **Harvard Book Award**—Ranked #1 in class of 495 at Sycamore High School
- **Founder and President** of *Engineering club* and *American Chemical Society Chemistry Club*.
President of *Nat'l Science Olympiad*. **B-Captain** of *Nat'l Science Bowl*. **Co-President** of *Mock Trial*.
- **Congressional Award Gold Medal** – Congress' sole medal to America's youth

Current: Second-year undergrad student at the *University of Pennsylvania* in Engineering