



Diversity & Inclusion Moment

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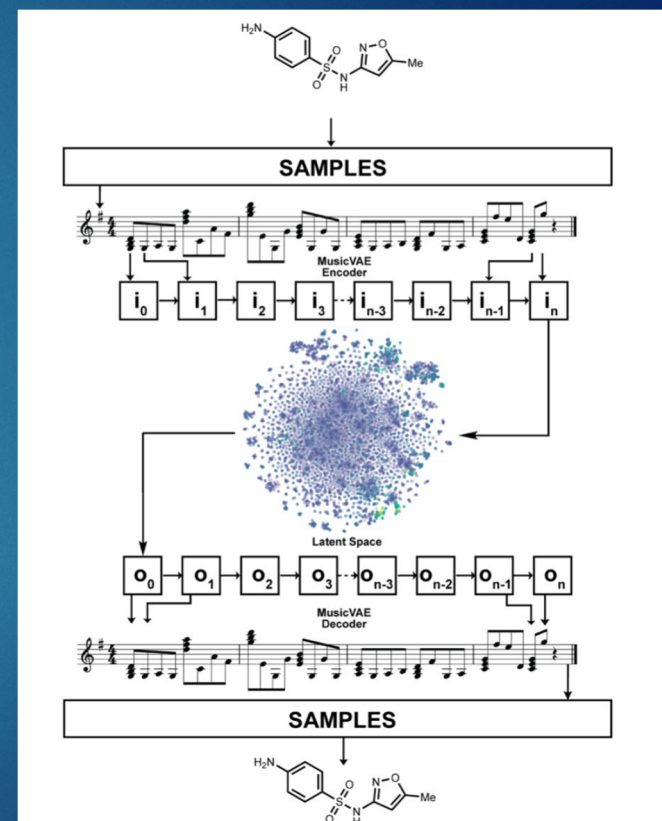
The University of Texas at Austin

STEM Education for Visually Impaired/Blind Students

The Influence of a Blind Professor in a Bioengineering Course



- This is an account of the efforts of a blind bioengineering professor and their access assistants to create accessible methods for teaching a largely visual course using digital copies of the course material, verbal descriptions of figures/equations.
- Common methods of accessibility tools include text-to-speech software, audio libraries, access assistants, braille and other writing structures, and hardware like CCD cameras.
- As a physical chemist, or spectroscopist specifically, how can we help expose students with visual disabilities to the science we do
 - [Making molecules into music?](#)
- At the college level, what are some tricks/techniques we can incorporate to make our science more accessible for visually impaired/blind students?



Sources: Mahjour, B.; Bench, J.; Zhang, R.; Frazier, J.; CERNAK, T. I. M. O. T. H. Y. Molecular Sonification for Molecule to Music Information Transfer. ChemRxiv2022. Greenville, B.R., Tiano, A.L., Chandani, A. et al. The Influence of a Blind Professor in a Bioengineering Course. Biomed Eng Education 1, 245–258 2022,



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