UNSEEN ADVANTAGE

THE ALTERNATE PERSPECTIVE OF A BLIND COMPUTATIONAL CHEMIST

ABOUT ME



I went to Wellesley College for my undergraduate studies. I majored in Middle-Eastern Studies and Chemistry.

Now, I am a postdoctoral researcher at the University of Minnesota.

For my graduate thesis, I studied *Helicobacter pylori* urease at the University of Florida.



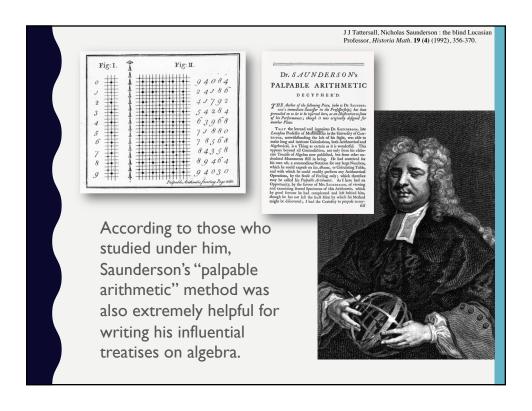
HISTORY: FOREBEARERS

Nicholas Saunderson (right) was a blind mathematician and scholar. He invented his own way to do computations, which he called "palpable arithmetic."

At Cambridge, Saunderson's work was highly respected, and his lectures were very popular.



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BLIND CHEMISTRY: HOW WE ARE TAUGHT

Science is still taught primarily through visual methods.

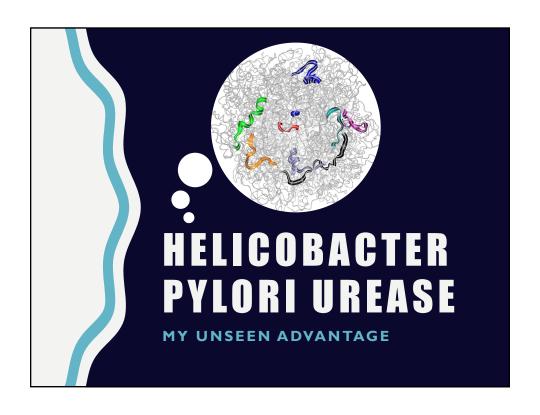
While these methods are tried and effective, many alternative methods bring new potential and extraordinary success to not only to blind and disabled scientists, but also to the field as a whole.

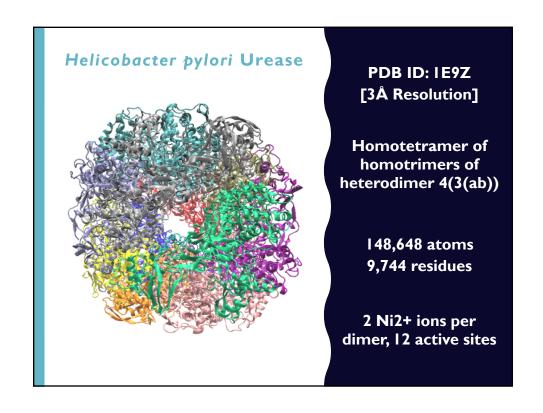
BLIND CHEMISTRY: NEW METHODS

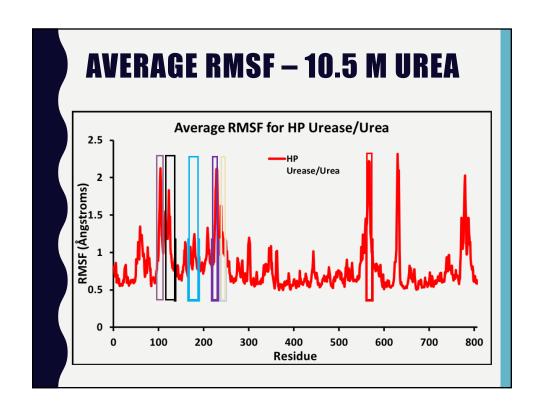
Dr. Wanda Diaz-Merced is a blind astronomer. She pioneered an approach to "listen to the stars" by turning star data into sound.

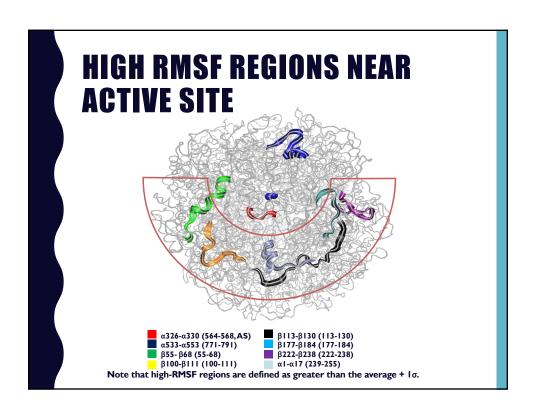


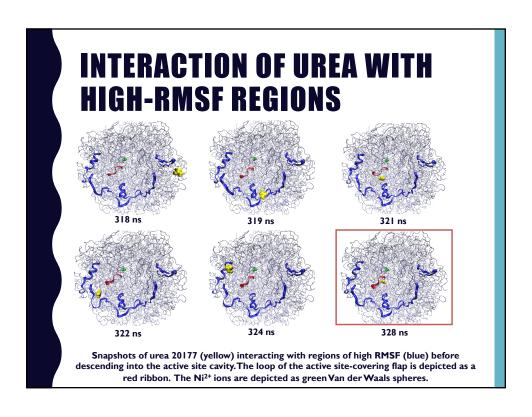
Dr. Diaz-Merced's star sonification and Dr. Saunderson's palpable arithmetic are just two examples of many unique perspectives and ideas to add to the scientific toolbox.













WELCOMING NEW PERSPECTIVES

My current advisor, J. Ilja Siepmann was one of those who saw the necessity of including a unique perspective.





To create a brighter future for science, I believe it is imperative to foster new perspectives.



ACKNOWLEDGEMENTS

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And, most importantly, I would like to thank you!