

ANDREW TUTT

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RESEARCH

- 2006-PRESENT **Dong Lab**, *Biology Department*, Duke University, Durham, NC
Investigation of PR genes controlled directly by WRKY 18 in the *arabidopsis thaliana* model system. Using genechip microarrays, and an *arabidopsis* mutant, I hope to arrest the promoter activity of WRKY 18, and use the microarray data to pinpoint likely PR genes it activates.
- 2005 **St. Claire Lab**, *Plant Sciences Department*, UC Davis, Davis, CA
Investigated Expression Level Polymorphism & Single-Feature Polymorphism irregularities in the analysis of genechip data for more than 180 Recombinant Inbred Lines (F₈ Generation) of the Bayreuth-0 x Shadara cross. Developed software, designed qPCR and PCR experiments, and interpreted genomic data from the lines in my analysis.

SKILLS

Extensive Computer Expertise

- ~ Expert in computer maintenance & repair. Coordinate refurbishment of computers for Project SKY.
- ~ Extensive website development experience, including innoworks.org, satgenie.com, & dukeimprov.com
- ~ Adept with web-authoring, publishing, and office tools, e.g. Flash, inDesign, Excel & Access
- ~ Fluency in 10+ programming & major scripting languages, e.g. Pascal, Python, & Matlab

DISTINCTIONS

- 2006 **Independent Study in Biology**, *Professor Xinnian Dong*, Duke University, Durham, NC
One of ten students in the class of 2009 completing research in biology this semester
- 2005 **Verification of Genotyping Information in the Bay-0 x Sha Arabidopsis RIL**,
Presentation, UC Berkeley, Berkeley, CA
One of twenty-three selected to present at the Summer Research Symposium
- 2004-2005 **Department Honors in Science**, Davis Senior High School, Davis, CA
~ Second-ranked student in Physics (senior year)
~ Third-ranked student in Biology (junior year)
~ Led science bowl team in scoring at Sacramento Regional Finals

EDUCATION

- 2006 **Duke University**, Durham, NC
Freshman in Biomedical Engineering
- 2002-2005 **Davis Senior High School**, Davis, CA
National Merit Scholar
AP Scholar with Distinction

REFERENCES

Available upon request