**Jason Davis**

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**OBJECTIVE**

Experienced enzyme scientist with a solid track record of research productivity, as evidenced by impactful first-author publications in top journals including *Biochemistry*

**EDUCATION**

***PhD, Biochemistry***, Stanford University, Stanford, CA 2008-2013   
***BA, Biochemistry & Biology***,University of Pennsylvania, Philadelphia, PA 2004-2008

**EXPERIENCE**

***Graduate Research Assistant***, Biochemistry Department, Stanford University 2008-present

• Established a line of research using evolutionary related enzymes to explore structure/function relationships in a family of kinase enzymes

• Managed collaborative study among three labs on fluorescence pol**a**riz**a**tion **and** surf**a**ce pl**a**smon reson**a**nce techniques **to study the in**ter**a**ctions **of** two pyridox**a**l-5-phosph**a**te (PLP)–dependent **enzymes**, **a**l**a**n**in**e **a**m**in**otr**a**nsfer**a**se (**A**LT) **a**nd glut**a**m**a**te dec**a**rboxyl**a**se (G**A**D), with pyridox**a**l **kinase** (PK)

• Demonstr**a**ted th**a**t PK c**a**n specific**a**lly b**in**d **to** **A**LT **a**nd G**A**D; b**in**d**in**g pr**of**iles **of** both **enzymes** to immobilized PK were **a**ltered by excess **a**mount **of** PLP

• Supervised and trained 2 undergraduate students, assisted in experimental design and publication efforts  
  
***Undergraduate Research Assistant****,* Psychiatry Department,University of Pennsylvania 2006-2008

• Studied the effects of pharmacological agents and perturbation of endocrine systems on monoamine uptake transporter and thyroid hormone receptor levels

• Discoveries expanded the nontranscriptional role of thyroid hormone derivatives and may help to explain the pharmacological effects of thyronamines *in vivo*

• Co-authored 4 published papers and presented data at national conference

**SELECT PUBLICATIONS**  
**Davis, J**., Kline, M. (2013). Transplanting allosteric control of enzyme activity by protein-protein interactions: Coupling a regulatory site to the conserved catalytic core. *Proceedings of the National* *Academy of Sciences*. 99(17):11115-11120. (In review)  
**Davis, J**., Marsh, S., Kline, M. (2011). IIAGlc allosteric control of *Escherichia coli* glycerol kinase: binding site cooperative transitions and cation-promoted association by Zinc(II). *Biochemistry*. 40(47):14302-8.  
Harrison, L., Kline, M., **Davis, J**., Nicki, M. (2006). Reverse genetics of *Escherichia coli* glycerol kinase allosteric regulation and glucose control of glycerol utilization *in vivo*. *Journal of Bacteriology.* 183(11):3336-44.

**LEADERSHIP**

• Chair, Stanford Biomedical Association for the Interest of Minority Students (BioAIMS) 2012-present

• Student Member, Stanford Chemistry/Biology Interface Seminar Series Committee 2009-present

• Member, Stanford Biochemistry Graduate Student Travel Grant Committee 2008-09

• Secretary, University of Pennsylvania Student Government 2007-08

• Class Representative, University of Pennsylvania Student Government 2006-07

**FELLOWSHIPS, AWARDS AND HONORS**

• NIH Chemistry/Biology Interface Training Grant Fellow. Nominated by departmental faculty and 2009-13

awarded $200,000 to cover stipend and tuition

• NSF travel award. Selected by Foundation committee based on research proposal 2010  
• Phi Beta Kappa, University of Pennsylvania 2008