

## CURRICULUM VITAE

Jeff Zheyang Chen  
University of Kentucky

### Personal Information

Date of Birth: September 1991  
Gender: Male  
Citizenship Status: Naturalized Citizen  
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The Ohio State University MSTP

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### Education

INSTITUTION AND LOCATION	DEGREE ( <i>pending</i> )	START DATE	END DATE ( <i>or expected date</i> )	FIELD OF STUDY
University of California: Los Angeles	BS	09/2009	06/2013	Biochemistry
University of Kentucky	(MD)	06/2014	(06/2022)	Medicine
University of Kentucky	(PhD)	06/2016	(06/2020)	Physiology

### Positions and Employment

ACTIVITY/ OCCUPATION	START DATE	END DATE	FIELD	INSTITUTION/ COMPANY	SUPERVISOR/ EMPLOYER
Undergraduate Research Assistant	08/2010	06/2013	Pharmacology	UCLA	Daniel Kaufman PhD
Research Assistant	06/2013	06/2014	Pharmacology	UCLA	Daniel Kaufman PhD
Graduate Student	07/2016	Present	Physiology	Univ. of Kentucky	Alan Daugherty PhD DSc

### Other Experience and Professional Memberships

2018 – Current American Physician Scientist Association: Events Committee  
2018 Program: PSTP Program Luncheon, Policy Panel, and Women in Science Panel  
2019 Program: PSTP Program Luncheon

2016 – Current American Heart Association, Great Rivers Affiliate: Student Member

2014 – Current Lexington Medical Society / Kentucky Medical Society: Student Member

2014 – 2018 American Medical Association: Student Member

### Academic and Professional Honors

2019 Society for Vascular Surgery: 2019 Vascular Research Initiatives Conference Poster Award  
Awarded for best aortic aneurysms poster presentation. Title: AT1a Receptor Deficiency Attenuates Thoracic Aortic Aneurysm Progression in FBN1<sup>C1041G/+</sup> mice

2018 Burroughs Wellcome Fund Trainee Travel Award  
Awarded to top abstracts at Translational Science 2018. Title: Sexual Dimorphism in a Mouse Model of Syndromic Thoracic Aortic Aneurysm

2016, 2018 University of Kentucky Department of Physiology: Best Student Research Blitz and Poster  
Awarded to best presentation among graduate students

2017 Saha Cardiovascular Research Center MD/PhD Student Award  
Awarded to MD/PhD Students who show an active interest in cardiovascular medicine.

2015-2016 University of Kentucky CCTS Professional Student Mentored Research Fellowship  
Competitive award for medical students interested in research

2009-2012 University of California – Los Angeles: Dean's Honors List

### Grants

NRSA F30 Chen (PI) 09/01/2019-09/01/2022

NHLBI F30HL143943

Title: Mechanisms of renin angiotensin modulation in thoracic aortic aneurysms

University of Kentucky CCTS TL1

09/01/2017-8/31/2019

NCATS UL1TR001998

Project title: Renin angiotensin system in Marfan Syndrome associated thoracic aortic aneurysms

Role: CCTS Trainee

## **Presentations:**

1. **Chen JZ**, Howatt D, Lu H, Daugherty A. 2019 Sexual dimorphism of experimental thoracic aortic diseases. *Vascular Discovery* 2019. *Oral and Poster*.
2. **Chen JZ**, Moorlegghen JJ, Sheppard M, Daugherty A. 2019 AT1a Receptor Deficiency Attenuates Thoracic Aortic Aneurysm Progression in FBN1 C1041G/+ Mice. *Vascular Discovery* 2019; *VRIC* 2019. *Poster*
3. **Chen JZ**, Sawada H, Moorlegghen JJ, and Daugherty A. 2018. Aortic dilation and elasticity in thoracic aortic aneurysm in a Marfan model is sexually dimorphic. *Vascular Discovery Conference*. San Francisco, CA. *Poster*
4. **Chen Z**, Daugherty A, Sheppard MB. 2018. Sexual Dimorphism in a Mouse Model of Syndromic Thoracic Aortic Aneurysm. *Translational Science* 2018, Washington DC. *Oral and poster*
5. **Chen Z**, Daugherty A, Sheppard MB. 2018. Sexual Dimorphism in a Mouse Model of Syndromic Thoracic Aortic Aneurysm. *CCTS Spring Conference*, Lexington, KY. *Oral and poster*
6. **Chen Z**, Rateri D, Daugherty A, Sheppard MB. 2017. Sexual Dimorphism in a Marfan Syndrome Mouse Model. *American Heart Association 2017 Scientific Sessions*, Anaheim, CA. *Poster*
7. **Chen Z**, Sawada H, Rateri DL, Daugherty A, Sheppard MB. 2017. Cardiac Cycle Affects Ultrasound Measurements of Ascending Aortic Diameter in a Marfan Syndrome Mouse Model. *ATVB/PVD 2017 Scientific Sessions*. Minneapolis MN. *Poster*
8. **Chen Z**, Sawada H, Rateri DL, Daugherty A, Sheppard MB. 2017. Cardiac Cycle Affects Ultrasound Measurements of Ascending Aortic Diameter in a Marfan Syndrome Mouse Model. *ATVB/PVD 2017 Scientific Sessions*. Minneapolis MN. *Poster*

## **Bibliography:**

1. **Chen JZ**, Sawada H, Moorlegghen JJ, Weiland M, Daugherty A, Sheppard MB. Aortic Strain Correlates with Elastin Fragmentation in Fibrillin-1 Hypomorphic Mice. *Circ Rep*. 2019; 1(5):199-205. DOI:10.1253/circrep.CR-18-0012
2. Sawada H, **Chen JZ**, Wright BC, Moorlegghen JJ, Lu HS, and Daugherty A. Ultrasound Imaging of the Thoracic and Abdominal Aorta in Mice to Determine Aneurysm Dimensions. *J Vis Exp*. 2019 Mar 8;(145). doi: 10.3791/59013.
3. Shoemaker R, AlSiraj Y, **Chen J**, Cassis L. Pancreatic AT1aR Deficiency Decreases Insulin Secretion in Obese C57BL/6 Mice. *Am J Hypertens*. 2019;32(6):597-604. doi: 10.1093/ajh/hpz042.
4. Sawada H, **Chen JZ**, Wright BC, Sheppard MB, Lu HS, Daugherty A. Heterogeneity of aortic smooth muscle cells: A determinant for regional characteristics of thoracic aortic aneurysms? *J Transl Int Med*. 2018;6(3):93-6. Epub 2018/11/15. doi: 10.2478/jtim-2018-0023. PMID: 30425944; PMCID: PMC6231305. *Review*
5. Sawada H, Wright BC, **Chen JZ**, Lu HS, Daugherty A. Drebrin - a new player in angiotensin ii-induced aortopathies. *Cardiovasc Res*. 2018. Epub 2018/08/15. doi: 10.1093/cvr/cvy205. PMID: 30107397.
6. Wu CH, Mohammadmoradi S, **Chen JZ**, Sawada H, Daugherty A, Lu HS. Renin-angiotensin system and cardiovascular functions. *Arterioscler Thromb Vasc Biol*. 2018;38(7):e108-e16. Epub 2018/06/29. doi: 10.1161/atvbaha.118.311282. PMID: 29950386; PMCID: PMC6039412.
7. Daugherty A, **Chen Z**, Sawada H, Rateri DL, Sheppard MB. Transforming growth factor-beta in thoracic aortic aneurysms: Good, bad, or irrelevant? *Journal of the American Heart Association*. 2017;6(1). Epub 2017/01/26. doi: 10.1161/jaha.116.005221. PMID: 28119286.
8. Tian J, Dang H, Nguyen AV, **Chen Z**, Kaufman DL. Combined therapy with gaba and proinsulin/alum acts synergistically to restore long-term normoglycemia by modulating t-cell autoimmunity and promoting beta-cell replication in newly diabetic nod mice. *Diabetes*. 2014;63(9):3128-34. doi: 10.2337/db13-1385. PMID: 25146474; PMCID: PMC4141368.
9. Tian J, Dang H, **Chen Z**, Guan A, Jin Y, Atkinson MA, Kaufman DL. Gamma-aminobutyric acid regulates both the survival and replication of human beta-cells. *Diabetes*. 2013;62(11):3760-5. doi: 10.2337/db13-0931. PMID: 23995958; PMCID: 3806626.