

# Mathew Schnorenberg

*Curriculum Vitae*

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## Education

- 2014 – **Doctor of Medicine (M.D.)**,  
*University of Chicago, Pritzker School of Medicine, Chicago, IL.*
- 2014 – **Doctor of Philosophy (Ph.D.), Molecular Engineering**,  
*University of Chicago, Institute for Molecular Engineering, Chicago, IL.*
- 2010 – 2014 **Artium Baccalaureus (A.B.), Biomedical Engineering**,  
*Harvard University, Cambridge, MA.*  
**Magna Cum Laude with Highest Honors in Biomedical Engineering.**  
Secondary Field: Global Health and Health Policy.

## Experience

### Research

- 2015 – **PhD student**,  
*University of Chicago, Institute for Molecular Engineering, Chicago, IL.*  
Co-advised by Matthew Tirrell and James LaBelle.
- 2012 – 2014 **Undergraduate student**,  
*Dana Farber Cancer Institute, Boston, MA.*  
Advised by Dr. James Dirk Iglehart. Researching DNA damage and repair in the context of cancer biology.

### Teaching

- 2013 – 2014 **Calculus 2 Course Assistant**,  
*Harvard Mathematics Department, Cambridge, MA.*  
Taught problem sessions, worked in the Math Question Center, graded homework. ~20 hours per week.
- 2012 – 2014 **Peer Tutor**,  
*Harvard Bureau of Study Counsel, Cambridge, MA.*  
Worked one-on-one and with small groups of students, tutoring Calculus 2, Calculus 3, Physics, and Calculus for Economists. ~10 hours per week.
- 2011 **Calculus 2 Course Assistant**,  
*Harvard Mathematics Department, Cambridge, MA.*  
Taught problem sessions, worked in the Math Question Center, graded homework. ~20 hours per week.

### Medical

- 2014 – **Medical volunteer at Washington Park Clinic**,  
*Pritzker School of Medicine, Chicago, IL.*

- 2014 **Medical volunteer at the Chicago Marathon**,  
Chicago, IL.
- 2014 – **Clinical and surgical shadowing**,  
*University of Chicago Medical Center*, Chicago, IL.
- 2014 **CPR and Basic Life Support certification**,  
*Pritzker School of Medicine*, Chicago, IL.
- 2012 – 2014 **Clinical and surgical shadowing**,  
*Dana-Farber Cancer Institute and Brigham and Women's Hospital*, Boston, MA.  
With Dr. J. Dirk Iglehart, surgical oncologist.
- 2012 **MEDLIFE mobile clinic**, Lima, Peru.  
Assisted doctors in providing care to underserved communities.

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## Honors

### Undergraduate Honors

- 2014 **Magna Cum Laude, with Highest Honors in Biomedical Engineering**,  
*Harvard College*, Cambridge, MA.
- 2012 – 2013 **John Harvard Scholar**, *Harvard College*, Cambridge, MA.  
Annual GPA in the top 5% of the undergraduate class.
- 2013 **1st place undergraduate poster at Bioengineering Expo 2013**, *Harvard School of Engineering and Applied Sciences*, Cambridge, MA.

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## Publications

### Journal Articles

- 2014 Dreze, M., Calkins, A. S., Gálicza, J., Echelman, D. J., **Schnorenberg, M. R.**,  
Fell, G. L., Iwai, S., Fisher, D. E., Szüts, D., Iglehart, J. D., Lazaro, J.-B., (2014).  
“Monitoring repair of UV-induced 6-4-photoproducts with a purified DDB2 protein  
complex.” In: *PLoS ONE* 9.1, e85896

### Undergraduate Thesis

- 2014 Next-Generation High-Throughput, Automated, and Quantitative Fluorescence  
Microscopy: An Application to Nucleotide Excision Repair in Women's Cancers  
Supervisors J. Dirk Iglehart, *Dana-Farber Cancer Institute*  
Sujata K. Bhatia, *Harvard School of Engineering and Applied Sciences*

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## Presentations

### Poster Presentations

- 2013 **Schnorenberg, M. R.**, Calkins, A. S., Iglehart, J. D., Lazaro, J. B., Dreze, M.,  
(2013). *Tinkering with nature's DNA damage recognition complexes: a proteo-  
probe for repair of UV-induced DNA damage*. Harvard School of Engineering and  
Applied Sciences Bioengineering Expo 2013. Cambridge, MA.  
**1<sup>st</sup> place undergraduate poster**

- 2015 Calkins, A., Szalat, R., Dreze, M., **Schnorenberg, M. R.**, Ceccaldi, R., Iglehart, J. D., Lazaro, J. B., (2015). *Measurement of nucleotide excision repair activity and correlation with cisplatin sensitivity*. 2015 ASCO Annual Meeting. Chicago, IL.
- 2013 Lazaro, J. B., Dreze, M., Calkins, A. S., Echelman, D., Patel, J., **Schnorenberg, M. R.**, Iglehart, J. D., (2013). *In situ hybridization of "DNA damage recognition complex probes" to repair pathway-specific DNA damage*. Keystone Symposia on Genomic Instability and DNA Repair. Banff, Alberta, Canada.
- 2013 Calkins, A. S., Dreze, M., **Schnorenberg, M. R.**, Iglehart, J. D., Lazaro, J. B., (2013). *Proteo-probes detect cisplatin-induced DNA damage and double strand breaks in tumor cells*. Dana-Farber Cancer Institute/Harvard Cancer Center Breast and Gynecologic Cancers Symposium. Boston, MA.
- 2013 Calkins, A. S., Dreze, M., **Schnorenberg, M. R.**, Iglehart, J. D., Lazaro, J. B., (2013). *Proteo-probes detect cisplatin-induced DNA damage and double strand breaks in tumor cells*. Dana-Farber Cancer Institute/Harvard Cancer Center Breast and Gynecologic Cancers Symposium. Boston, MA.
- 2013 Dreze, M., Calkins, A. S., Echelman, D. J., **Schnorenberg, M. R.**, Fell, G. L., Fisher, D. E., Iglehart, J. D., Lazaro, J. B., (2013a). *A proteo-probe for nucleotide excision repair in women's cancers*. Dana-Farber Cancer Institute/Harvard Cancer Center Breast and Gynecologic Cancers Symposium. Boston, MA.
- 2013 Dreze, M., Calkins, A. S., Echelman, D. J., **Schnorenberg, M. R.**, Fell, G. L., Fisher, D. E., Iglehart, J. D., Lazaro, J. B., (2013b). *Purified DNA damage recognition protein complexes as probes for DNA damage: detection of nucleotide excision repair of UV damage*. "Mammalian DNA Repair" Gordon Research Conference. Ventura, California.
- 2012 Dreze, M., Calkins, A. S., Echelman, D. J., **Schnorenberg, M. R.**, Iglehart, J. D., Lazaro, J. B., (2012). *Probing DNA damage using purified protein complexes defines modes of repair deficiency in cancer cells*. "Dana-Farber Cancer Institute/Harvard Cancer Center Breast and Gynecologic Cancers Symposium. Boston, MA.

## Grants

- 2012 – 2013 **Harvard College Research Program Grant** **\$990**  
*Harvard College Research Program*, Cambridge, MA.  
 Sponsored with a wage stipend as a research assistant at Dana-Farber Cancer Institute in the laboratory of Dr. J. Dirk Iglehart.

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## References

### University of Chicago MSTP

#### **Marcus Clark, MD**

Director, Medical Scientist Training Program  
Professor of Medicine and Pathology  
Chief, Section of Rheumatology  
Co-Director, Knapp Center for Lupus and Immunology Research

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### Institute for Molecular Engineering

#### **Matthew Tirrell, PhD**

Founding Pritzker Director, Institute for Molecular Engineering

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