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Education and Training

B.S. **Providence College**
Biology
Summa cum laude
1995-1999

Ph.D. **University of North Carolina at Chapel Hill**
Cell and Molecular Physiology
Advisor - Edward R. Perl
Thesis title - Properties of a distinctive set of substantia gelatinosa neurons labeled with green fluorescent protein.
1999- 2004

Post-doctoral training
Columbia University
Neuroscience and Biochemistry & Molecular Biophysics
Robert Leet and Clara Guthrie Patterson Trust Fellow
Advisor - Thomas M. Jessell
2005-2010

Professional Experience -- Employment History

Assoc Professor, Edward R Perl Investigator	2021-
University of Chapel Hill	
Howard Hughes Medical Investigator	2015-2021
Janelia Research Campus – Group Leader II	

Howard Hughes Medical Investigator
Janelia Research Campus – Group Leader I   2014-2015
Howard Hughes Medical Investigator
Janelia Research Campus – Fellow   2010-2014

Honors

Edward R. Perl Investigator	2021
Yang Family Biomedical Scholars	2021
Robert Leet and Clara Guthrie Patterson Trust Fellow	2007-2009
Howard Hughes Medical Associate	2005-2007
Ruth L. Kirschstein National Research Service Award	2003-2005
Joseph E. Pogue Fellowship UNC-CH (3 years tuition, stipend, fees)	1999-2002
Burroughs Wellcome Scholar	1999

> Awarded by the UNC Medical School to outstanding
> first-year biomedical sciences student

Providence College Biology Award (most outstanding biology major)	1999
Premedical Honor Society	1996-1999
Presidential Award (full scholarship to Providence College)	1995-1999

Bibliography and Products of Scholarship
* Indicates senior author

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Kwak, I., Guo, J.-Z., Hantman, A., Kriegman, D., & Branson, K. (2020). Detecting the Starting Frame of Actions in Video. *The IEEE Winter Conference on Applications of Computer Vision*, 489–497. http://openaccess.thecvf.com/content_WACV_2020/html/Kwak_Detecting_the_Starting_Frame_of_Actions_in_Video_WACV_2020_paper.html

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