



# Joshua Gittelman



## Professional Goal

To apply my people skills, problem solving abilities, and my knowledge of data analysis, statistics and programming in a vibrant and productive workplace.

## Work History

United Tile  
Warehouse  
Portland, OR 97210  
10/21 - 1/22

Washington State University  
Research Scientist  
Vancouver, WA 98686  
2011 - 2013

University of Texas  
Post Doctoral Fellow  
Austin, TX 78705  
2006 - 2011

University of Washington  
Graduate Student  
Seattle, WA 98195  
1999 - 2005

SEQUUS Pharmaceuticals  
Senior Lab Technician, R&D  
(Purchased by ALZA Corp, 10/1998)  
Menlo Park, CA 94025  
1993-1999

Genetech  
Lab Technician, Quality Control, Clinical Research  
South San Francisco, CA 94080  
1991-1993

## Contact

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9215 NW Stark Ct  
Portland, OR 97229

## Skills and Strengths

over 20 years experience  
conducting research in both  
industry and academia (see cv)

- experimental design
- data acquisition
- statistical analysis
- public speaking

### **Statistics/ Software**

Basic statistics, Igor Pro, Excel,  
(résumé made in Python)

### **Python examples**

[Python 1: Proposal for United Tile  
Epicor P21 Custom App](#)

[Python 2: Hard copy printing/ macOS  
YouTube tutorial/ \[GitHub\]\(#\)](#)

## Education

Cornell University  
Ithaca NY, 14850  
B.A., Neurobiology

University of Washington  
Seattle WA, 98195  
Ph.D., Neurobiology



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Gittelman JX, Perkel DJ, Portfors CV. Dopamine modulates auditory responses in the inferior colliculus in a heterogeneous manner. *J Assoc Res Otolaryngol*. 2013 Oct;14(5):719-29.

Gittelman JX, Wang L, Colburn HS, Pollak GD. Inhibition shapes response selectivity in the inferior colliculus by gain modulation. *Front Neural Circuits*. 2012 Sep 18;6:67.

Gittelman JX, Pollak GD. It's about time: how input timing is used and not used to create emergent properties in the auditory system. *J Neurosci*. 2011 Feb 16;31(7):2576-83.

Gittelman JX, Li N. FM velocity selectivity in the inferior colliculus is inherited from velocity-selective inputs and enhanced by spike threshold. *J Neurophysiol*. 2011 Nov;106(5):2399-414.

Gittelman JX, Li N, Pollak GD. Mechanisms underlying directional selectivity for frequency-modulated sweeps in the inferior colliculus revealed by in vivo whole-cell recordings. *J Neurosci*. 2009 Oct 14;29(41):13030-41.

Pollak GD, Xie R, Gittelman JX, Andoni S, Li N. The dominance of inhibition in the inferior colliculus. *Hear Res*. 2011 Apr;274(1-2):27-39.

Pollak GD, Gittelman JX, Li N, Xie R. Inhibitory projections from the ventral nucleus of the lateral lemniscus and superior paraolivary nucleus create directional selectivity of frequency modulations in the inferior colliculus: a comparison of bats with other mammals. *Hear Res*. 2011 Mar;273(1-2):134-44.

Li N, Gittelman JX, Pollak GD. Intracellular recordings reveal novel features of neurons that code interaural intensity disparities in the inferior colliculus. *J Neurosci*. 2010 Oct 27;30(43):14573-84.

Xie R, Gittelman JX, Li N, Pollak GD. Whole cell recordings of intrinsic properties and sound-evoked responses from the inferior colliculus. *Neuroscience*. 2008 Jun 12;154(1):245-56.

Xie R, Gittelman JX, Pollak GD. Rethinking tuning: in vivo whole-cell recordings of the inferior colliculus in awake bats. *J Neurosci*. 2007 Aug 29;27(35):9469-81.

Brew HM, Gittelman JX, Tempel BL et al. Seizures and reduced life span in mice lacking the potassium channel subunit Kv1.2, but hypoexcitability and enlarged Kv1 currents in auditory neurons. *J Neurophysiol*. 2007 Sep;98(3):1501-25.

Gittelman JX, Tempel BL. Kv1.1-containing channels are critical for temporal precision during spike initiation. *J Neurophysiol*. 2006 Sep;96(3):1203-14.

Zalipsky S, Mullah N, Harding JA, Gittelman J, Guo L, DeFrees SA. Poly(ethylene glycol)-grafted liposomes with oligopeptide or oligosaccharide ligands appended to the termini of the polymer chains. *Bioconjug Chem*. 1997 Mar-Apr;8(2):111-8.

## **Patent**

Guo L., Gittelman J., Zalipsky S., Martin F.; SEQUUS Pharm. Inc., assignee. Liposome Composition and Method for Administering a Quinolone. United States patent US 5,979,379. 1999, Oct 26.