# BIOGRAPHICAL SKETCH

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NAME: Nathan C. Sheffield

eRA COMMONS USER NAME (credential, e.g., agency login): NSHEFF

POSITION TITLE: Assistant Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

| INSTITUTION AND LOCATION | DEGREE | Completion Date | FIELD OF STUDY |
|---|---|---|---|
| Brigham Young University, Provo, UT | B.S | 04/2008 | Bioinformatics |
| Duke University, Durham, NC | Ph.D. | 05/2013 | Bioinformatics and Computational Biology |
| Center for Molecular Medicine, Vienna, Austria | Postdoctoral | 12/2015 | Computational Epigenomics |
| Stanford University, Stanford, CA | Postdoctoral | 08/2016 | Computational Epigenomics |

## A. Personal Statement

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## B. Positions and Honors

*Positions and Employment*

2016-pres. Assistant Professor, Center for Public Health Genomics, University of Virginia
2016-pres. Assistant Professor, Department of Biomedical Engineering, University of Virginia

*Honors and Awards*

2014 EMBO Long-term Postdoctoral Fellowship, European Molecular Biology Organization
2014 HFSP Long-term Postdoctoral Fellowship, Human Frontier Science Program

## C. Contributions to Science

H-index: 18. ORCID: 0000-0001-5643-4068. Links and citation info: My NCBI or www.databio.org.

**Sheffield NC**, Pierron G, Klughammer J, Datlinger P, Schönegger A, Schuster M, Hadler J, Surdez D, Guillemot D, Lapouble E, Freneaux P, Champigneulle J, Bouvier R, Walder D, Ambros IM, Hutter C, Sorz E, Amaral AT, de Álava E, Schallmoser K, Strunk D, Rinner B, Liegl-Atzwanger B, Huppertz B, Leithner A, de Pinieux G, Terrier P, Laurence V, Michon J, Ladenstein R, Holter W, Windhager R, Dirksen U, Ambros PF, Delattre O, Kovar H, Bock C, and Tomazou EM. DNA methylation heterogeneity defines a disease spectrum in Ewing sarcoma. **2017**. *Nat. Med* 23: 386–395. DOI:10.1038/nm.4273

**Sheffield NC**, and Bock C. LOLA: enrichment analysis for genomic region sets and regulatory elements in R and Bioconductor. **2016**. *Bioinformatics* 32: 587–589. PMCID:PMC4743627 DOI:10.1093/bioinformatics/btv612

Kovar H, Amatruda J, Brunet E, Burdach S, Cidre-Aranaz F, de Alva E, Dirksen U, van der Ent W, Grohar P, Grunewald TG, Helman L, Houghton P, Iljin K, Korsching E, Ladanyi M, Lawlor E, Lessnick S, Ludwig J, Meltzer P, Metzler M, Mora J, Moriggl R, Nakamura T, Papamarkou T, Sarikas BR, Redini F, Richter GH, Rossig C, Schadler K, Schafer BW, Scotlandi K, **Sheffield NC**, Shelat A, Snaar-Jagalska E, Sorensen P, Stegmaier K, Stewart E, Sweet-Cordero A, Szuhai K, Tirado OM, Tirode F, Toretsky J, Tsafou K, Uren A,

Zinovyev A, and Delattre O. The second European interdisciplinary Ewing sarcoma research summit - A joint effort to deconstructing the multiple layers of a complex disease. **2016**. *Oncotarget*. PMCID:PMC4890991 DOI:10.18632/oncotarget.6937

Tomazou EM, **Sheffield NC**, Schmidl C, Schuster M, Schönegger A, Datlinger P, Kubicek S, Bock C, and Kovar H. Epigenome mapping reveals distinct modes of gene regulation and widespread enhancer reprogramming by the oncogenic fusion protein EWS-FLI1. **2015**. *Cell Reports* 10: 1082–1095. PMCID:PMC4542316 DOI:10.1016/j.celrep.2015.01.042

**D. Research Support**

*Active*

UVA start-up funds (PI:Sheffield)                                     8/23/2016-no end date
University of Virginia
Title: New faculty start-up funds from the University of Virginia
Role: PI

4-VA at UVA Collaborative (PI:Sheffield)                        06/01/2018-05/31/2019
4-VA program
Title: A standardized database format for genomic locus enrichment analysis
Role: PI