



Personal Information

Name	Anna-Marie Finger
Address	1877 Hayes Street, San Francisco, CA 94117
Date/place of birth	03.04.1991, Berlin GER
Cell	+1 (628)-777-8594
Email	annamariiefinger@gmail.com
Social media	LinkedIn

Brief Profile

- Dr. rer. nat. in molecular biology, research at the intersection of cell, chrono-, and cancer biology
- working on molecular disease mechanisms to deliver new targets for therapy development
- combining my knowledge in circadian rhythm and cancer research to drive the newly evolving field of circadian medicine and bring innovative solutions to the clinic
- passionate about supporting early career and female scientists in the STEM fields

Professional Development

- Aug 2022 - present [Postdoc | University of California, San Francisco | Roose Lab](#)
Project: "Unraveling circadian crosstalk underlying colorectal cancer progression using single cell profiling and next-generation organoids"
- In 2019, the International Agency for Research on Cancer declared disruption of circadian clocks as probably carcinogen. As postdoc at UCSF, I am studying mechanistic connections between human circadian rhythms and colorectal cancer. My goal is to deliver innovative candidates/strategies for cancer therapy, such as time-of-day optimized treatment regimens.
- Feb 2020 - Jul 2022 [Postdoc | Charité Universitätsmedizin, Berlin | Kramer Lab](#)
Project: "Defining the role of TGF β signaling for rhythmic liver function"
- Building on my previous work, identifying TGF β as novel circadian regulator in vitro, I could show that TGF β /SMAD signaling also impacts rhythmic liver function in vivo. With this project, I aimed to demonstrate the importance of circadian clocks for tissue homeostasis, as well as health risks of circadian disruption.
- Jul 2021 - Feb 2022 [Scientific Coordinator | CRC/TR "Foundations of Circadian Medicine"](#)
 As coordinator for the transregio grant "Foundations of Circadian Medicine", I managed the collaborative design and writing of 10+ scientific projects. Our goal was to tackle innovative and challenging research questions at the intersection of chronobiology, immunology, metabolism, and neurology, and establish Berlin and Lübeck as centers for the newly evolving field of circadian medicine.
- Oct 2016 - Feb 2020 [PhD Candidate | Charité Universitätsmedizin, Berlin | Kramer Lab](#)

Project: "Unraveling molecular mechanisms of intercellular coupling between peripheral circadian clocks"

Circadian coupling described how cellular circadian clocks communicate to maintain synchronous rhythms on the tissue level - this is crucial for organs to perform their functions at the right time-of-day. As PhD student, I discovered TGF β signaling as previously unknown coupling pathway between cellular human circadian clocks. Aim of this work was to identify targetable molecular mechanisms for counteracting circadian disruption and related diseases.

Feb 2016 - Aug 2016 [M.Sc. Research Assistant | Charité Universitätsmedizin, Berlin | Kramer Lab](#)
Project: "Studying the genetic interaction between RNA binding proteins and the polyadenylation factor CPSF6 regarding circadian clock regulation"

Dec 2014 - May 2015 [M.Sc. Student Intern | Charité Universitätsmedizin, Berlin | Herzel Lab](#)
Project: "Computational simulation of transcriptional feedback systems underlying the circadian immune clock"

Jul 2014 - Oct 2014 [Postbacc Research Assistant | University of Virginia, Charlottesville | Dang Lab](#)
Project: "Mutational and immunological characterization of NSCLC"

May 2013 - May 2014 [B.A. Research Assistant | University of Virginia, Charlottesville | Brown Lab](#)
Project: "Genetic characterization of a CMV resistant mouse model"

Community Service

Organization of Scientific Events

since 2022 UCSF Women in Life Sciences coffe/social hours • 2023 Chronobiology Gordon Research seminar • 2022 - 2023 Endeavor Consortium for Cancer Metastasis seminar series • 2021 - 2022 Society for Research on Biological Rhythms global talk series • 2021 Chronobiology summer school

Volunteer Activities

Leadership team, UCSF Women in Life Sciences • Member, PANDA | Women Leadership Network • Classroom teacher, UCSF Science & Health Education Partnership program • Reviewer and guest editor (Journal of Mol Biol, Scientific Reports, eLife, Frontiers in Physiology)

Supervision and mentoring

Supervisor of 2 BSc, 2 MSc, and 2 PhD lab rotation students • Supervisor and mentor of 1 MSc thesis candidate • Teacher, 2 Chronobiology summer schools

Education

Oct 2016 - Feb 2020 [Dr. rer. nat. | Molecular Biology | Humboldt University of Berlin](#)
Date of defense: Jun 19th, 2020

Supervisors: Prof. Dr. Achim Kramer and Prof. Dr. Hanspeter Herzel

Oct 2014 - Aug 2016 [M.Sc. | Molecular Medicine | Charité Universitätsmedizin, Berlin](#)
Date of defense: Aug 6th, 2016
Supervisors: Prof. Dr. Achim Kramer and Dr. Bert Maier

Jan 2012 - May 2014 [B.A. | Biology | University of Virginia, Charlottesville](#)

Oct 2010 - Dec 2011 [Medical Doctor | Charité Universitätsmedizin, Berlin](#)
transferred to University of Virginia B.A. program

Awards and Fellowships

Aug 2022 Momentum Fellowship, The Mark Foundation for Cancer Research
 Sep 2022 Leadership Academy 6, German Scholars Organization
 Jun 2021 Advanced Science Career Development Program for Innovation and Research (ASPIRE), Max Delbrück Center Berlin
 Jun 2020 Excellence Award, 2020 Society for Research on Biological Rhythms Congress
 Jul 2019 FEBS Letters Poster Award, 2019 Chronobiology Research Conference
 Jul 2018 Add-On Fellowship for Interdisciplinary Life Sciences, Joachim Herz Foundation
 Apr 2016 Deutschlandstipendium, AMGEN Germany
 Oct 2013 Milton G. Abramson Stipend, University of Virginia Athletic Foundation
 Jul 2012 GDCh Award, German Chemical Society

Funding

Project	Funder/Volume	Function	Period	Status
Walter Benjamin Postdoc Fellowship	DFG ~125K EUR	postdoc researcher	TBD	decision process
Momentum Fellowship	The Mark Foundation ~110 USD	postdoc researcher	Aug 2022 - Dec 2023	ongoing
TR Foundations of Circadian Medicine	DFG ~11M EUR	scientific coordinator	TBD	resubmission 2023/24 cycle
Individual Research Grant	DFG ~230K EUR	writing together with PI	Jul 2023 - Jun 2026	ongoing
Scientific Meeting Fund	Boehringer Ingelheim ~7K EUR	Chronobiology GRS chair	May 2023	completed
Begegnungszonen Grant	Joachim Herz Foundation ~20K EUR	Chronobiology GRS chair	Aug 2020	completed
Begegnungszonen Grant	Joachim Herz Foundation ~25K EUR	Summer school chair	Aug 2019	completed
Individual Research Grant	DFG ~230K EUR	writing together with PI, postdoc	Jul 2019 - Jun 2022	completed
Add-On Fellowship	Joachim Herz Foundation ~13K EUR	fellow	Dec 2018 - Dec 2021	completed

Presentations and Publications

Oral Presentations

2023 Chronobiology Gordon Research Conference (invited talk) • 2022 Rijo-Ferreira Lab Seminar (invited talk) • 2019 Chronobiology Gordon Research Seminar (abstract selection) • 2019 CAREebers Meeting (invited talk) • 2018 German Clock Club (abstract selection)

Poster Presentations

2023 Chronobiology Gordon Research Conference • 2020 Society for Research on Biological Rhythms Congress (Excellence Award) • 2019 Chronobiology Gordon Research Conference and Seminar (FEBS Letters Poster Award) • 2019 European Biological Rhythms Society Congress • 2018 German Clock Club • 2017 Chronobiology Gordon Research Conference and Seminar

Publications

1. Schmal C, Maier B, Ashwal-Fluss R, Bartok O, Finger AM, Bange T, Koutsouli S, Robles MS, Kadener S, Herzl H, Kramer A. Alternative polyadenylation factor CPSF6 regulates temperature compensation of the mammalian circadian clock. **PLoS Biol 2023**
2. Finger AM. In Vitro Assays for Measuring Intercellular Coupling Among Peripheral Circadian Oscillators. **Methods Mol Biol 2022**
3. Kramer A, Lange T, Spies C, Finger AM, Berg D, Oster H. Foundations of circadian medicine. **PLoS Biol 2022**
4. Finger AM, Jäschke S, Del Olmo M, Hurwitz R, Granada AE, Herzl H, Kramer A. Intercellular coupling between peripheral circadian oscillators by TGF- β signaling. **Sci Adv 2021**
5. Finger AM, Kramer A. Peripheral clocks tick independently of their master. **Genes Dev 2021**
6. Maier B, Lorenzen S, Finger AM, Herzl H, Kramer A. Searching Novel Clock Genes Using RNAi-Based Screening. **Methods Mol Biol 2021**
7. Finger AM, Kramer A. Mammalian circadian systems: Organization and modern life challenges. **Acta Physiol (Oxf) 2020**
8. Finger AM, Dibner C, Kramer A. Coupled network of the circadian clocks: a driving force of rhythmic physiology. **FEBS Lett 2020**

Manuscripts in preparation

1. Ector C, Schmal C, Didier J, De Landtsheer S, Finger AM, Müller-Marquardt F, Schulte J, Sauter T, Keilholz U, Herzl H, Kramer A, Granada AE. Uncovering time-of-day sensitivity in cancer models. **Nat Commun (under review)**
2. Finger AM & Hendley A, Roose JP, Gonzales H, Weaver VM. The Extracellular Matrix and Cancer Cell Stemness. **Trends in Cancer (invited review, submitted)**
3. Karra L, Finger AM, Krush M, Prinz M, Shechtman L, Tennvooren L, Bahl K, Hysienaj L, Combes AJ, Gonzalez H, Argüello RJ, Spitzer M & Roose JP. Single cell proteomics characterization of hematopoiesis impacted by aberrant Ras signaling. **Cell (submitted)**
4. Finger AM, Hartig PY, Stern ML, Trenkle RA, Torres M, Körber A, Grudzieki A, Maier B, Kramer A. The Role of SMAD signaling for circadian entrainment and rhythmic liver function. **In preparation**