

Curriculum Vitae for: Timothy I Shaw, Ph.D.
Date: March 24th, 2026

Current Position: Assistant Member
Department of Biostatistics and
Bioinformatics
Moffitt Cancer Center
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Tampa, FL 33612
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timothy.shaw@moffitt.org

Current Academic Appointments: Assistant Professor
Department of Oncologic Sciences, MDC 44
Morsani College of Medicine
University of South Florida
12901 Bruce B. Downs Blvd.

Education:
2009 – 2014 Ph.D. Bioinformatics, University of Georgia. Athens GA.
2003 – 2008 Bachelor of Science in Computer Science. Georgia Institute of
Technology. Atlanta GA.

Academic Appointments and Employment:

2021 – Current Assistant Member, Department of Biostatistics and
Bioinformatics, Moffitt Cancer Center
Tampa, FL.

2018 - 2021 Senior Bioinformatics Research Scientist, Department of
Computational Biology, Jinghui Zhang Lab, St Jude Children’s
Research Hospital.
Memphis TN.

2014 - 2018 Bioinformatics Research Scientist, Department of Computational
Biology, RNA Group, Proteomic Facility, St Jude Children’s
Research Hospital.
Memphis TN.

2011 – 2014 Assistant Graduate Researcher, Epidemiology and Biostatistics
Department. Ming Zhang Lab, University of Georgia.
Athens GA.

2008 – 2013 Software Developer Student Contractor, U.S. Environmental
Protection Agency.
Athens GA.

2007 – 2008 Software Developer Intern, NextGen Healthcare Information Systems.
Atlanta GA.

Languages Spoken

English and Mandarin

Teaching and Mentoring

2025 Oct Genome Data Analysis Course Lecture
2024 Oct Genome Data Analysis Course Lecture
2023 Oct 11th Genome Data Analysis Course Lecture
2022 Oct Genome Data Analysis Course Lecture
2021 Oct 13th Genome Data Analysis Course Lecture
2021 Nov 3rd BBI Seminar Series
2012-2013 Guest lecturer on Bioinformatics Tools for EPID 8200
University of Georgia

Educational Leadership

May 2025 – Present

Founding Director of the ODYSSEY: Oncological Data Academy for Students in Health Science

Highschool Training

Feb 2026-Present

Research Training, **MARCH, Youssef Alhamzawi**

Undergraduate Training

September 2025-Present Research Training, ODYSSEY, **Sreehitha Sajja, USF.**
August 2025-Present Research Training, ODYSSEY, **Ashwin Neti, USF.**
June 2025-Present Research Training, ODYSSEY, **Sofia Rojas, Florida State.**
May 2025-Nov 2025 Research Training, ODYSSEY, **Emerson Nedurian, USF.**
Nov 2024-Present Research Training, ODYSSEY, **Vishwa Murugappan, USF.**
Jan 2024-Present Research Training, ODYSSEY, **Ken Dao, USF.**
Feb 2023-Present Research Training, ODYSSEY, **Thac Duong, USF.**
May 2025-Present Research Training, **Thuy Trang Ta, USF.**
Jan 2024-Present Research Training, **Kim Nguyen, USF.**
Dec 2023-May 2025 Research Training, **Vincent Pham, USF.**
March 2021-Jan 2024 Research Training, **Michael Golden, CFU.**
2009-2010 Undergraduate student mentorship for **Dong Nguyen**
2005-2006 Teaching assistant for GT1000 Georgia Institute of Technology

Graduate Training

December 2025-Present Research Training, **Catherine Wu**, University of South Florida
June 2025-Present Research Training, **Ryanne Mulligan**, PhD Candidate, University of Florida
August 2022-Present Research Training, **Darwin Chang**, PhD Student, University of South Florida
June 2024-Present Research Training, **Divya Priyanka Talada**, University of South Florida (Now an associate scientist in Avram lab)

March 2023-Jan 2024 Research Training, **Ching-Yao Yang**, University of South Florida (Now a staff scientist @ Emory)
January 2022-June 2023 Research Training, **Gabrielle A. Nobles**, University of South Florida (Now a PhD student @ Baylor College of Medicine)
August 2021-December 2021 Florida Research Training, **William Joseph Namm**, University of South Florida

Medical Professional

June 2025-Aug 2025 Research Training, **Rocco English, MD Student, NOVA.**
June 2020-Oct 2024 Computational Collaborator, **Jennifer Kamens**, previously a Clinical Fellow, Stanford. (Now an Assistant Professor @ Cincinnati Children's Hospital Medical Center)

Summer Interns

June 2024- Aug 2024 Research Training, **Zoey Chang**
June 2024- Aug 2024 Research Training, **Lauren Gardner**

Postdoctoral Training

2023-Present **Organizer of the Oncological Data Sciences (ODSi) Weekly Meeting for T32 Post Docs working in Bioinformatics @ Moffitt.**
Oct 2023 Research Training, **Joshua Davis**, T32 Post Doc.
August 2022-2025 Research Training, **Tomas Zelenka, ACS Fellowship Post Doc.**

Honors and Awards

2026 Cancer Bone Society 2026 Annual Meeting Outstanding Abstract Award.
2026 Co-author, 2025 Team Science Publication Award, Moffitt Cancer Center. (Cleveland, Cancer Cell)
2025 Winner, BBSR, "*ShinyEvents*" Visualization of the Year, Moffitt Cancer Center.
2025 2024 Moffitt Junior Faculty Award Quantitative Science Division, Moffitt Cancer Center.
2025 Co-author, 2024 Moffitt Publication of the Year (Ruffell, Cancer Cell)
2023 Winner, BBSR, "*Immune Hubs in Melanoma*" Visualization of the Year, Moffitt Cancer Center
2023 Winner, BBSR, "*Path Surveyor*" Analytic Tool of the Year, Moffitt Cancer Center.
2023 Co-author, 2022 Team Science Publication Award, Moffitt Cancer Center. (Rodriguez, Cancer Cell)
2023 ORIEN AVATAR M2GEN Annual Meeting Travel Award
2021 Winner of FY2022 Moffitt Hackathon Bio2 Pilot Award
2013 Dissertation Completion Award
2013 CAPASUS Travel Award
2012-2013 Century Award -- ARCS Fellow
2011-2012 Global Impact Award -- ARCS Fellow

2010 1st Place UGA Bioinformatics Retreat Poster Presentation
2003-2007 Georgia Hope Scholarship
2002 Georgia Governor's Honors Program Alumni

Research Support

Current: **External Grants**

Account: HT94252510691
Name of PI: Manley, B./**Shaw, T**
Dates: 07/15/2025-07/14/2029
Funding Source: US Army/CDMRP/KCRP
Title: Characterizing the role of aberrant FGD1 splicing in brain and bone metastasis in clear cell renal cell carcinoma
% Effort: 11%
Role in the Study: **Co-Principal Investigator**
Total Direct Cost: \$1,200,000 [\$532,406.00(Shaw) + \$667,595 (Manley)]
Total Amount of Award: \$1,923,571 [\$798,673(Shaw) + \$1,124,898 (Manley)]

Account: 1R01CA293755-01A1
Name of PI: Avram, D./**Shaw, T**
Dates: 08/13/2025-04/30/2030
Funding Source: NIH/NCI
Title: Program control of CD8+ T cell response to tumors and tumor memory
% Effort: 10%
Role in the Study: **Co-Principal Investigator**
Total Direct Cost: \$1,630,445
Total Amount of Award: \$2,747,300

Account: 23L10
Name of PI: **Shaw, T**/Rodriguez, P
Dates: 04/01/2023-03/31/2026
Funding Source: Florida Biomedical Research Program (FBRP)/Live Like Bella (Sub: University of Florida - Jatinder Lamba)
Title: Targeting ER Stress in Pediatric Acute Myeloid Leukemia
% Effort: 5%
Role in the Study: **Principal Investigator**
Total Direct Cost: \$107,858
Total Amount of Award: \$122,714

Account: 5P30 CA076292-26
Name of PI: Cleveland, J
Dates: 02/01/2022 – 01/31/2027
Funding Source: NIH/NCI
Title: Moffitt Cancer Center Support Grant yrs 24-27
% Effort: 10%
Role in the Study: Co-Investigator

Total Direct Cost: \$12,032,146

Total Amount of Award: \$20,274,143
Account: 3R01 CA262121-02S1
Name of PI: Rodriguez, P
Dates: 09/01/2022-08/31/2026
Funding Source: NIH/NCI
Title: Plant-derived extracts regulate immunosuppressive myelopoiesis in Breast cancer patients
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$125,000
Total Amount of Award: \$210,625

Account: R01 AI171045-01A1
Name of PI: Avram, D/Keselowsky
Dates: 02/02/2023-01/31/2028
Funding Source: NIH sub w/UF
Title: Tissue-Anchored vs. Circulating Constructs for Immunometabolic Resolution of Psoriasis
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$849,250
Total Amount of Award: \$1,429,903

Account: 25B12
Name of PI: Brian Ruffell
Dates: 08/01/2025 - 07/31/2028
Funding Source: Florida Biomedical Research Program (FBRP)/Bankhead-Coley Cancer Research Program/ Discovery Science
Title: STING activation underlies response to chemoimmunotherapy in TNBC
% Effort: 2%
Role in the Study: Co-Investigator
Total Direct Cost: \$521,739
Total Amount of Award: \$600,000

Account: N/A
Name of PI: James Mulé
Dates: 10/01/2025 - 09/30/2028
Funding Source: Dr. Miriam and Sheldon G. Adelson Medical Research Foundation
Title: Improving immunotherapy and tackling resistance through studies of the melanoma microenvironment
% Effort: 10%
Role in the Study: Co-Investigator
Total Direct Cost: \$347,786
Total Amount of Award: \$347,786

Account: 5 T32 CA233399-05
Name of PI: Cress, WD/Elsa, FR/**Shaw, TI**
Dates: 09/16/2019-08/31/2026
Funding Source: NIH/NCI
Title: Integrated Program in Cancer and Data Science
% Effort: 0%

Role in the Study: **Co-Principal Investigator – Assigned during the no cost extension**
Total Direct Cost: \$1,618,402
Total Amount of Award: \$1,743,202

Pending and Unfunded grants from 2025/2026:

Account: R01
Name of PI: Perna, F.
Dates: 12/01/2025-11/30/2030
Funding Source: NIH/NCI
Title: Alternatively Spliced Cell Surface Proteins as Targets of Multi-Specific and Sensitive T-cell Platforms for Immunotherapy of Acute Myeloid Leukemia
% Effort: 10%
Role in the Study: Co-Investigator
Total Direct Cost: \$2,043,655
Total Amount of Award: \$3,749,354
Date Submitted: 02/19/2025

Account: T32(Renewal Application)
Name of PI: Cress, D/Flores, E/Shaw, T
Dates: 12/01/2025- 11/30/2030
Funding Source: NIH
Title: Integrated Program in Cancer and Data Science (ICADS)
% Effort: 0%
Role in the Study: **Co-Principal Investigator**
Total Direct Cost: \$2,237,816
Total Amount of Award: \$2,376,746
Date Submitted: 01/25/2025

Account: TBD
Name of PI: Ruffell, B
Dates: 12/01/2025-11/30/2028
Funding Source: Department of Defense (DOD)
Title: Noncanonical role for STING during chemoimmunotherapy in TNBC
% Effort: 1%
Role in the Study: Co-Investigator
Total Direct Cost: \$593,471
Total Amount of Award: \$999,999

Account: R21 (Avram, D.)
Name of PI: Avram, D.
Dates: 04/01/2026-03/31/2028
Funding Source: National Institutes of Health (NIH)
Title: CD4+ T cells in adoptive cell therapies in melanoma
% Effort: 2.5%
Role in the Study: Co-Investigator
Total Direct Cost: \$275,000
Total Amount of Award: \$463,375

Account: TBD (Avram, D.)

Name of PI: Avram, D.
Dates: 04/01/2026-03/31/2028
Funding Source: American Cancer Society, Inc. (ACS)
Title: CD4+ T cells in solid tumors and their reprogramming
% Effort: 2.5%
Role in the Study: Co-Investigator
Total Direct Cost: \$270,000
Total Amount of Award: \$290,000

Account: TBD (Davis, J.)
Name of PI: Davis, J.
Dates: 04/01/2026-03/31/2028
Funding Source: Department of Defense (DOD)
Title: Development of a shiny application for the adaptation of a deep learning based generalized treatment response prediction model using transcriptomic and clinical data from rare cancer cohorts
% Effort: 1%
Role in the Study: Co-Investigator (Mentor)
Total Direct Cost: \$83,086
Total Amount of Award: \$140,000

Account: TBD (Shaw, T.)
Name of PI: Shaw, T
Dates: 04/01/2026-03/31/2028
Funding Source: Coefficient Giving
Title: Identify treatment combinations associated with exceptional clinical responses
% Effort: 20%
Role in the Study: **Principal Investigator**
Total Direct Cost: \$585,242
Total Amount of Award: \$986,133

Account: TBD (Chen, Dung-Tsa/Kim, Dae Wan/El Naqa, I.)
Name of PI: Chen, Dung-Tsa/Kim, Dae Wan/El Naqa, I.
Dates: 07/01/2026-06/30/2027
Funding Source: Florida Department of Health/Florica Cancer Innovation Fund
Title: Early Integrative Modeling of Radiomic Derived Tumor Heterogeneity and Adverse Event Profiles to Inform Precision Oncology and Accelerate Therapeutic Decision-Making in Gastrointestinal Cancer
% Effort: 20%
Role in the Study: Co-Investigator
Total Direct Cost: \$609,138
Total Amount of Award: \$700,509

Account: TBD (Rodrigues Pessoa, R.)
Name of PI: Rodrigues Pessoa, R.
Dates: 07/01/2026-06/30/2029
Funding Source: Florida Department of Health/Bankhead-Coley
Title: Identify and validate androgen receptor novel splicing variants in localized and advanced prostate cancer
% Effort: 1%

Role in the Study: Co-Investigator
Total Direct Cost: \$260,869
Total Amount of Award: \$300,000

Account: TBD (Rodriguez, P.)
Name of PI: Rodriguez, P.
Dates: 07/01/2026-06/30/2029
Funding Source: Florida Department of Health/Bankhead-Coley
Title: Mitochondrial stress adapter XPNPEP3 centrally regulated anti-tumor immunity
% Effort: 10%
Role in the Study: Co-Investigator
Total Direct Cost: \$521,524
Total Amount of Award: \$599,753

Account: TBD (Chakraborty, S.)
Name of PI: Chakraborty, S.
Dates: 10/01/2026-09/30/2029
Funding Source: American Cancer Society, Inc. (ACS)
Title: The Role of CD4+ T Cells in Anti-Tumor Immunity and Adoptive Cell Therapy
% Effort: 0%
Role in the Study: Mentor
Total Direct Cost: \$217,500
Total Amount of Award: \$217,500

Account: R01
Name of PI: Wang, L. (Cleveland Clinic)
Dates: 12/01/2026-11/30/2031
Funding Source: National Institutes of Health (NIH) (PTE: The Cleveland Clinic)
Title: Reprogramming immunosuppressive myeloid cells to overcome therapeutic resistance in cancer immunotherapy
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$186,400
Total Amount of Award: \$314,085

Account: R01
Name of PI: Wan, L./ Avram, D.
Dates: 12/01/2026 - 11/30/2031
Funding Source: National Cancer Institute (NCI)
Title: Deciphering roles of HECTD3 and ITCH in the tumor immune microenvironment
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$2,483,450
Total Amount of Award: \$4,184,615

Account: R01
Name of PI: Rodriguez, P.
Dates: 12/01/2026 - 11/30/2031

Funding Source: National Cancer Institute (NCI)
Title: Mitochondrial stress mediator XPNPEP3 in melanoma cells limits anti-tumor immunity
% Effort: 10%
Role in the Study: Co-Investigator
Total Direct Cost: \$1,985,915
Total Amount of Award: \$3,346,266

Completed

Internal:

Account: IO Program 02400002620
Name of PI: **Shaw**
Dates: 11/03/2025-02/28/2026
Funding Source: MCC
Title: Charting the transcriptional clock of tumor-infiltrating lymphocytes and macrophages.
% Effort: 0
Role in the Study: PI
Total Direct Cost: 10,000
Total Amount of Award: 10,000

Account: BBSR
Name of PI: **Shaw**
Dates: 07/01/2024-06/30/2025
Funding Source: MCC
Title: Developing ShinyEvents: a generalizable framework for the analysis of longitudinal molecular and clinical data
% Effort: 0
Role in the Study: PI
Total Direct Cost: 25,000
Total Amount of Award: 25,000

Account: Moffitt Cancer Center (MCC)-Innovation Core
Name of PI: **Shaw, T**
Dates: 02/15/2023-06/30/2024
Funding Source: MCC-Innovation Core
Title: Developing a web-accessible database of cancer-specific isoforms (CSIdb)
% Effort: 1%
Role in the Study: **Principal Investigator**
Total Direct Cost: \$33,000
Total Amount of Award: \$33,000

Account: Moffitt Cancer Center (MCC)-Innovation Core
Name of PI: Stewart, P/Jaeger, A
Dates: 02/15/2023-06/30/2024
Funding Source: MCC-Innovation Core

Title: A flexible, robust, and reproducible proteogenomic pipeline
% Effort: 1%
Role in the Study: Co-Investigator
Total Direct Cost: \$31,000
Total Amount of Award: \$31,000

Name of PI: **Shaw, T**
Dates: 07/01/2022 – 6/30/2023
Funding Source: MCC/Dept. Pilot Award
Title: Deploying a CCLE Explorer and Genome Browser
% Effort: 0%
Role in the Study: **Principal Investigator**
Total Direct Cost: \$25,000
Total Amount of Award: \$25,000

Account:
Name of PI: **Shaw, T**/Stewart, P/Karolak, A
Dates: 02/01/2022 – 01/31/2023
Funding Source: MCC Quantitative Science/Team Science
Title: Alternatively spliced exons as targets for the immunotherapy of cancer
% Effort: 5%
Role in the Study: **Principal Investigator**
Total Direct Cost: \$75,000
Total Amount of Award: \$75,000

Completed External:

Account: 1 R21 CA286417-01
Name of PI: Chen, DT
Dates: 01/12/2024-12/31/2025
Funding Source: NIH/NCI
Title: Development of adverse event (AE) derived biomarkers for predicting clinical outcomes in lung cancer
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$243,100
Total Amount of Award: \$409,623

Account: SAT-21-064-01-SBF-ACS
Name of PI: Meshinchi, S
Dates: 07/01/2021-06/30/2024
Funding Source: American Cancer Society (ACS)/SBF sub w/Fred Hutchinson Cancer Ctr.
Title: Integrated transcriptome-based prognostic and disease monitoring strategies in childhood AML
% Effort: 5%
Role in the Study: **Co-Investigator**
Total Direct Cost: \$32,668
Total Amount of Award: \$39,200

Account: 5R01 AI067846-16

Name of PI: Avram, D
Dates: 08/04/2020-06/30/2024
Funding Source: NIH/NIAID
Title: Role of Bcl11b in CD4+ T Cells and Innate Lymphoid Cells
% Effort: 7%
Role in the Study: Co-Investigator
Total Direct Cost: \$1,187,182
Total Amount of Award: \$1,955,288

Account:
Name of PI: Tarhini, A
Dates: 06/02/2021-04/06/2024
Funding Source: Tampa Community Fdn.M2Gen/ORIEN
Title: Predictors of Immunotherapeutic Benefits in Patients with Advanced Malignancies Treated with Immune Checkpoint Inhibitors
% Effort: 5%
Role: Co-Investigator
Total Directs: \$268,810
Total of Award: \$316,736

Account: 23B06
Name of PI: Rodriguez, P
Dates: 04/01//2023-09/30/2023
Funding Source: FBRP-BHC Bridge
Title: Mitochondrial stress-related proteins regulate myeloid subsets in lung and melanoma tumors
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$86,956
Total Amount of Award: \$99,999

Account: IRG-21-145-25
Name of PI: **Shaw, T**
Dates: 09/01/2022-08/31/2023
Funding Source: American Cancer Society (ACS)-IRG
Title: Evaluating the unfolded protein response as biomarkers for prognostic and disease monitoring in clear cell renal cell carcinoma patients
% Effort: 1%
Role in the Study: **Principal Investigator**
Total Direct Cost: \$30,000
Total Amount of Award: \$30,000

Account: 5P01CA096832-14
Name of PI: Suzanne Baker
Dates: 06/19/2015-03/31/2020
Funding Source: NCI
Title: NORMAL & NEOPLASTIC GROWTH IN THE BRAIN
% Effort: 5%
Role in the Study: CSU

Account: 5P30 CA07692-23

Name of PI: Cleveland, J
Dates: 02/01/2017 – 01/31/2022
Funding Source: NIH/NCI
Title: Moffitt Cancer Center Support Grant-Years 19-23
% Effort: 5%
Role in the Study: Co-Investigator
Total Direct Cost: \$8,694,670
Total Amount of Award: \$14,954,830

Published Patent Application

Chimeric antigen receptors targeting splice variants of the extracellular matrix proteins tenascin c (tnc) and procollagen 11a1 (coll1a1) S Gottschalk, J Wagner, E WICKMAN, TI Shaw, J Zhang US Patent App. 18/270,675, Published 2024/7/4 (Pending)

Chimeric antigen receptors for direct and indirect targeting of fibronectin-positive tumors S Gottschalk, J Wagner, TI Shaw, J Zhang US Patent App. 17/628,483, Published 2022/8/25 (Pending)

Services

Grant Review:

2025 **Reviewer** for the **NIH NBSxWGS Program**
2025 **Reviewer** for the Moffitt Internal Departmental Grant
2024 **Reviewer** for the **NIH/RTI RECOVER Application.**
2024 **Reviewer** for the **NIH P01 Application**
2023 **Reviewer** for the Department Pilot Award from the Department of Biostatistics and Bioinformatics, **Moffitt Cancer Center.**
2023 **Reviewer** for the George Edgecomb Society
2023 **Reviewer** for the Analytics and Statistics for Population Research panel A (ASPA) NIH Study section.

Journal Reviewer and Editor Experiences

2019-Current **Associate Editor** of Frontier in Oncology and Frontier in Genetics
Cancer Genetics Section
2023-Current **Associate Editor** of BMC Bioinformatics
2025-Current **Associate Editor** of PLOS Genetics
2025 **Reviewer**, Genomics, Proteomics & Bioinformatics
2025 **Reviewer**, Proteomics
2025 **Reviewer**, Advanced Science
2025 **Reviewer**, Briefings in Bioinformatics
2025 **Reviewer**, Bioinformatics Advances
2024 **Reviewer**, Cancer Investigation
2024 **Reviewer**, Journal of Immunology
2023 **Reviewer**, Journal of Immunology
2023 **Reviewer**, BMC Genomics
2023 **Reviewer**, BMC Bioinformatics
2023 **Reviewer**, iScience
2023 **Reviewer**, Plos Computational Biology
2022 **Reviewer**, Computational and Structural Biotechnology Journal
2022 **Reviewer**, Cell Reports Medicine

2022 **Reviewer**, BMC Bioinformatics
2022 **Reviewer**, Frontier in Oncology
2022 **Reviewer**, Frontier in Genetics
2022 **Reviewer**, International Journal of Biological Sciences.
2021 **Guest Editor**, Plos Genetics
2021 **Reviewer**, Cancers
2021 **Reviewer**, BMC Medical Genomics
2021 **Reviewer**, Molecular Carcinoma
2020 **Reviewer**, BMC Bioinformatics
2020 **Reviewer**, Molecular Ecology
2020 **Reviewer**, Entropy
2018-2020 **Reviewer**, AMIA Joint Summits on Translational Science
2016 **Reviewer**, PLOS One
2016 **Reviewer**, F1000 Research

Co-reviewer

2024 **Corresponding Reviewer**, Dung-tsa Chen, Nature Communications
2019 **Corresponding reviewer**, Jinghui Zhang Molecular Cancer Therapeutics
2018 **Corresponding reviewer**, Jinghui Zhang, Theragnostic
2018 **Corresponding reviewer**, Gang Wu, Genome Research
2018 **Corresponding reviewer**, Gang Wu, Leukemia

Local Services

Administrative Appointments:

2011 **President**, Bioinformatic Graduate Student Association
2010 **Publicity Chair**, Bioinformatic Graduate Student Association
2007 **President**, Taiwanese American Student Association
2006 **Vice President**, Taiwanese American Student Association

Community

2024-Present **Co-Organizer**, Moffitt Immuno-Oncology - Research in Progress
2024-Present **Committee Member**, SITC Big Data and Data Sharing
2023-Present **Co-organizer**, ODSi Bioinformatics Working Group
2022-2025 **Quantitative Sciences Committee Representative**, USF-Moffitt Oncologic Sciences Department Faculty Advisory
2016-2020 **CAPASUS Representative** for Tennessee and Kentucky
2017-2019 **Volunteer** for the St Jude patient's housing @ TARGET and Tri delta place
2011 **Organizer & Host** of the Bioinformatic Student Symposium: Honoring Dr. Ying Xu.
2011 **Organizer** of the Linux & Rcluster Seminar.
2011 **Organizer** of the UGA Georgia Advanced Computing Resource Center Student Field Trip.
2011 **Organizer** of the UGA Genome Sequencing Facility Fieldtrip.
2011 **Organizer** of the UGA Georgia Advanced Computing Resource Center Student Field Trip
2010 **Organizer** of the Student Seminar Series.

Professional Association Memberships

2026-Current	Member , Society for Immunotherapy of Cancer (SITC)
2023-Current	Member , Society for Immunotherapy of Cancer (SITC)
2022-Current	Member , American Society of Hematology (ASH)
2020-Current	Member , American Association for Cancer Research (AACR)
2013-Current	Member , CAPASUS: Taiwanese Research Professionals

Key Peer-Reviewed Publications From Last Five Years

1. Obermayer A, Davis J, Talada DP, Teng M, Eschrich S, Yin V, Spakowicz D, Dhruvo D, Rounbehler RJ, Churchman ML, Tarhini AA, Wang X, Gupta S, Markowitz J, Goecks J, Li R, Rodriguez-Pessoa R, Manley BJ, Tan AC, Grass GD, Chen DT, **Shaw TI**. ShinyEvents: harmonizing longitudinal data for real world survival estimation. *NPJ Precis Oncol*. 2026 Jan 13;10(1):54. doi: 10.1038/s41698-025-01212-0. PubMed PMID: 41526666; PubMed Central PMCID: PMC12877126. **2024 JIF: 8.0 (Senior Author)**
2. **Shaw TI**, Pounds S, Cao X, Ma J, Palacios G, Mason J, Perkins S, Wu G, Fan Y, Wang J, Zhou X, Obermayer A, Kinney MC, Kraveka J, Gross T, Sandlund J, Zhang J, Mullighan C, Lim MS, Leventaki V. Comprehensive genomic analysis reveals molecular heterogeneity in pediatric ALK-positive anaplastic large cell lymphoma. *Leukemia*. 2025 (2024 Online now). <https://doi.org/10.1038/s41375-024-02468-4>. PMID: 39592809. **2024 JIF: 12.8 (First Author)**
3. Davis JT, Obermayer AN, Soupir AC, Hesterberg RS, Duong T, Yang CY, Dao KP, Manley BJ, Grass GD, Avram D, Rodriguez PC, Fridley BL, Yu X, Teng M, Wang X, **Shaw TI**. BatchFLEX: feature-level equalization of X-batch. *Bioinformatics*. 2024 Oct 1;40(10):btae587. doi: 10.1093/bioinformatics/btae587. PMID: 39360977 PMCID: PMC11486499. **2024 JIF: 4.4 (Senior Author; Trainee is underlined)**
4. **Shaw TI***, Wagner J*, Tian L*, Wickman E, Poudel S, Wang J, Paul R, Koo SC, Lu M, Sheppard H, Fan Y, O'Neill FH, Lau CC, Zhou X, Zhang J, Gottschalk S. Discovery of immunotherapy targets for pediatric solid and brain tumors by exon-level expression. *Nat Commun*. 2024 May 3;15(1):3732. doi: 10.1038/s41467-024-47649-y. PMID: 38702309 PMCID: PMC11068777 **2024 JIF: 14.7 (* Co-first author)**
5. Obermayer AN, Chang D, Nobles G, Teng M, Tan AC, Wang X, Chen YA, Eschrich S, Rodriguez PC, Grass GD, Meshinchi S, Tarhini A, Chen DT, **Shaw TI**. PATH-SURVEYOR: pathway level survival enquiry for immuno-oncology and drug repurposing. *BMC Bioinformatics*. 2023 Jun 28;24(1):266. doi: 10.1186/s12859-023-05393-y. PMID: 37380943; PMCID: PMC10303868. **2024 JIF: 2.9**
6. **Shaw TI***, Zhao B, Li Y, Wang H, Wang L, Manley B, Stewart PA, Karolak A. Multi-omics approach to identifying isoform variants as therapeutic targets in cancer patients. *Frontiers in Oncology*. 2022 Dec; 12. doi: 10.3389/fonc.2022.1051487. **2024 JIF: 3.5 (First; Senior)**
7. Obermayer A, Dong L, Hu Q, Golden M, Noble JD, Rodriguez P, Robinson TJ, Teng M, Tan AC, **Shaw TI***. DRPPM-EASY: A Web-Based Framework for Integrative Analysis of Multi-Omics Cancer Datasets. *Biology (Basel)*. 2022 Feb 8;11(2):260. doi: 10.3390/biology11020260. PMID: 35205126 PMCID: PMC8869715. **2024 JIF: 3.6 (Senior Author)**
8. **Shaw TI**, Dong L, Tian L, Qian C, Liu Y, Ju B, High A, Kavdia K, Pagala VR, Shaner B, Pei D, Easton J, Janke LJ, Porter SN, Ma X, Cheng C, Pruett-Miller SM, Choi J, Yu J, Peng J, Gu W,

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All Peer-Reviewed Publications

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1. Obermayer A, Davis J, Talada DP, Teng M, Eschrich S, Yin V, Spakowicz D, Dhruvo D, Rounbehler RJ, Churchman ML, Tarhini AA, Wang X, Gupta S, Markowitz J, Goecks J, Li R, Rodriguez-Pessoa R, Manley BJ, Tan AC, Grass GD, Chen DT, **Shaw TI**. ShinyEvents: harmonizing longitudinal data for real world survival estimation. *NPJ Precis Oncol*. 2026 Jan 13;10(1):54. doi: 10.1038/s41698-025-01212-0. PubMed PMID: 41526666; PubMed Central PMCID: PMC12877126. **2024 JIF: 8.0 (Senior Author)**
2. Philbrook P, Dean MJ, Sanchez-Pino MD, Zheng LQ, Zabaleta J, Vázquez-Martínez JA, Chang D, Mandula JK, Shaw TI, Wyczechowska D, Garai J, Thylur Puttalingaiah R, Mansouri A, Huang W, Das S, Chang S, Conejo-Garcia JR, Rodriguez PC, Ochoa AC. Medium-Chain Fatty Acid Receptor GPR84 Modulates Cytotoxic CD8 T cells Antitumor Immunity Through Metabolic Reprogramming. *Cancer Immunol Res*. 2026 Jan 20;. doi: 10.1158/2326-6066.CIR-25-0695. [Epub ahead of print] PubMed PMID: 41557755. **2024 JIF: 8.2**

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3. Hesterberg RS, Davis JT, Handoo KJ, Elmarsafawi AG, Augello AC, Cheng CH, Atkins R, Lee DH, Yang C, Yao J, Patel KR, Mediavilla-Varela M, Pinilla-Ibarz J, Soto-Palma C, Locke FL, Song X, Wang X, Berglund AE, Rodriguez PC, Knittel G, Flümman R, Reinhardt HC, **Shaw TI**, Yu X, Niedernhofer LJ, Cleveland JL. Lymphoma accelerates T cell and tissue aging. *Cancer Cell*. 2025 Aug 18;. doi: 10.1016/j.ccell.2025.07.023. [Epub ahead of print] PubMed PMID: 40845845. **2024 JIF: 48.8.**
4. Adapa SR, Porshe S, Talada DP, Nywening TM, Anderson ML, **Shaw TI**, Jiang RHY. Spatial Transcriptomics Reveals Distinct Architectures but Shared Vulnerabilities in Primary and Metastatic Liver Tumors. *Cancers (Basel)*. 2025 Oct 1;17(19). doi: 10.3390/cancers17193210. PubMed PMID: 41097737; PubMed Central PMCID: PMC12523610. **2024 JIF: 4.5**
5. Yao S, Li T, Davis JT, **Shaw TI**, Yu X, Wang X. SmartImpute is a targeted imputation framework for single-cell transcriptome data. *Cell Rep Methods*. 2025 Aug 18;5(8):101122. doi: 10.1016/j.crmeth.2025.101122. Epub 2025 Aug 4. PubMed PMID: 40763742; PubMed Central PMCID: PMC12461658. **2024 JIF: 4.5**
6. Tarhini AA, Obermayer A, Lee SJ, LaFramboise WA, Hodi FS, Karunamurthy AD, Eljilany I, Chen DT, Hwu P, El Naqa IM, Streicher H, Sondak VK, Storkus WJ, Butterfield LH, **Shaw TI**, Kirkwood JM. Integrative Immune Signature of Complementary Circulating and Tumoral Biomarkers Maximizes the Predictive Power of Adjuvant Immunotherapeutic Benefits in High-risk Melanoma. *Clin Cancer Res*. 2025 Aug 1;31(15):3249-3258. doi: 10.1158/1078-0432.CCR-24-3980. PubMed PMID: 40392969; PubMed Central PMCID: PMC12316551. **2024 JIF: 10.2**

7. Gamal W, Goedhart NB, Simon-Molas H, Mediavilla-Varela M, Uriepero-Palma A, Peters FS, Maharaj K, Chavez JC, Powers JJ, Obermayer A, **Shaw TI**, Conejo-Garcia JR, Rodriguez PC, Sahakian E, Pinilla-Ibarz J, Kater AP. Mitigating T-Cell Mitochondrial Dysfunction in CLL to Augment CAR T-Cell Therapy: Evaluation in an Immunocompetent Model. *Blood Adv*. 2025 Feb 12: bloodadvances.2024014822. doi: 10.1182/bloodadvances.2024014822. Epub ahead of print. PMID: 39938006.. **2024 JIF: 7.4**
8. Nagy MZ, Plaza-Rojas LB, Boucher JC, Kostenko E, Austin AL, Tarhini AA, Chen Z, Du D, Ojwang' AME, Davis J, Obermayer A, Rejniak KA, **Shaw TI**, Guevara-Patino JA. Effector T cells under hypoxia have an altered transcriptome similar to tumor-stressed T cells found in non-responsive melanoma patients. *J Immunother Cancer*. 2025 Feb 25;13(2):e010153. doi: 10.1136/jitc-2024-010153. PMID: 40010774. **2024 JIF: 10.3**
9. **Shaw TI**, Pounds S, Cao X, Ma J, Palacios G, Mason J, Perkins S, Wu G, Fan Y, Wang J, Zhou X, Obermayer A, Kinney MC, Kravcka J, Gross T, Sandlund J, Zhang J, Mullighan C, Lim MS, Leventaki V. Comprehensive genomic analysis reveals molecular heterogeneity in pediatric ALK-positive anaplastic large cell lymphoma. *Leukemia*. 2025 (2024 Online now). <https://doi.org/10.1038/s41375-024-02468-4>. PMID: 39592809. **2024 JIF: 12.8 (First Author)**

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10. Hänggi K, Li J, Gangadharan A, Liu X, Celas DP, Osunmakinde O, Keske A, Davis J, Ahmad F, Giron A, Anadon CM, Gardner A, DeNardo DG, **Shaw TI**, Beg AA, Yu X, Ruffell B. Interleukin-1 α release during necrotic-like cell death generates myeloid-driven immunosuppression that restricts anti-tumor immunity. *Cancer Cell*. 2024 Nov 13:S1535-6108(24)00402-1. doi: 10.1016/j.ccell.2024.10.014. PMID: 39577420. **2024 JIF: 48.8**
11. Wickman E, Lange S, Wagner J, Ibanez J, Tian L, Lu M, Sheppard H, Chiang J, Koo SC, Vogel P, Langfitt D, Perry SS, Shanmugam R, Bell M, **Shaw TI**, Krenciute G, Zhang J, Gottschalk S. IL-18R supported CAR T cells targeting oncofetal tenascin C for the immunotherapy of pediatric sarcoma and brain tumors. *J Immunother Cancer*. 2024 Nov 20;12(11):e009743. doi: 10.1136/jitc-2024-009743. PMID: 39572158 PMCID: PMC11580246. **2024 JIF: 10.3**
12. Davis JT, Obermayer AN, Soupir AC, Hesterberg RS, Duong T, Yang CY, Dao KP, Manley BJ, Grass GD, Avram D, Rodriguez PC, Fridley BL, Yu X, Teng M, Wang X, **Shaw TI**. BatchFLEX: feature-level equalization of X-batch. *Bioinformatics*. 2024 Oct 1;40(10):btae587. doi: 10.1093/bioinformatics/btae587. PMID: 39360977 PMCID: PMC11486499. **2024 JIF: 4.4 (Senior Author)**
13. Mandula JK, Sierra-Mondragon RA, Jimenez RV, Chang D, Mohamed E, Chang S, Vazquez-Martinez JA, Cao Y, Anadon CM, Lee SB, Das S, Rocha-Munguba L, Pham VM, Li R, Tarhini AA, Furqan M, Dalton W, Churchman M, Moran-Segura CM, Nguyen J, Perez B, Kojetin DJ, Obermayer A, Yu X, Chen A, **Shaw TI**, Conejo-Garcia JR, Rodriguez PC. Jagged2 targeting in lung cancer activates anti-tumor immunity via Notch-induced functional reprogramming of tumor-associated macrophages. *Immunity*. 2024 May 14;57(5):1124-1140.e9. doi: 10.1016/j.immuni.2024.03.020. PMID: 38636522 PMCID: PMC11096038 **2024 JIF: 25.5**
14. **Shaw TI***, Wagner J*, Tian L*, Wickman E, Poudel S, Wang J, Paul R, Koo SC, Lu M, Sheppard H, Fan Y, O'Neill FH, Lau CC, Zhou X, Zhang J, Gottschalk S. Discovery of immunotherapy targets for pediatric solid and brain tumors by exon-level expression. *Nat*

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PMCID: PMC11068777 **2024 JIF: 14.7 (* Co-first author)**

15. Peak T, Tian Y, Patel A, **Shaw T**, Obermayer A, Laborde J, Kim Y, Johnson J, Stewart P, Fang B, Teer JK, Koomen J, Berglund A, Marchion D, Francis N, Echevarria PR, Dhillon J, Clark N, Chang A, Sexton W, Zemp L, Chahoud J, Wang L, Manley B. Pathogenic Roles for RNASET2 in Clear Cell Renal Cell Carcinoma. *Lab Invest.* 2024 Feb 29;:102041. doi: 10.1016/j.labinv.2024.102041. [Epub ahead of print] PubMed PMID: 38431116. **2024 JIF: 5.1**
16. Liu X, Gillis N, Jiang C, McCofie A, **Shaw TI**, Tan AC, Zhao B, Wan L, Duckett DR, Teng M. An Epigenomic fingerprint of human cancers by landscape interrogation of super enhancers at the constituent level. *PLoS Comput Biol.* 2024 Feb;20(2):e1011873. doi: 10.1371/journal.pcbi.1011873. eCollection 2024 Feb. PubMed PMID: 38335222; PubMed Central PMCID: PMC10883583. **2024 JIF: 3.8**

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18. Grass GD, Ercan D, Obermayer AN, **Shaw T**, Stewart PA, Chahoud J, Dhillon J, Lopez A, Johnstone PAS, Rogatto SR, Spiess PE, Eschrich SA. An Assessment of the Penile Squamous Cell Carcinoma Surfaceome for Biomarker and Therapeutic Target Discovery. *Cancers (Basel).* 2023 Jul 15;15(14):3636. doi: 10.3390/cancers15143636. PMID: 37509297; PMCID: PMC10377392. **2024 JIF: 4.5**
19. Neault M, Lebert-Ghali CÉ, Fournier M, Capdevielle C, Garfinkle EAR, Obermayer A, Cotton A, Boulay K, Sawchyn C, St-Amand S, Nguyen KH, Assaf B, Mercier FE, Delisle JS, Drobetsky EA, Hulea L, **Shaw TI**, Zuber J, Gruber TA, Melichar HJ, Mallette FA. CBFA2T3-GLIS2-dependent pediatric acute megakaryoblastic leukemia is driven by GLIS2 and sensitive to navitoclax. *Cell Rep.* 2023 Sep 26;42(9):113084. doi: 10.1016/j.celrep.2023.113084. Epub 2023 Sep 15. PMID: 37716355. **2024 JIF: 7.5**
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21. Liu Y, Klein J, Bajpai R, Dong L, Tran Q, Kolekar P, Smith JL, Ries RE, Huang BJ, Wang YC, Alonzo TA, Tian L, Mulder HL, **Shaw TI**, Ma J, Walsh MP, Song G, Westover T, Autry RJ, Gout AM, Wheeler DA, Wan S, Wu G, Yang JJ, Evans WE, Loh M, Easton J, Zhang J, Klco JM, Meshinchi S, Brown PA, Pruett-Miller SM, Ma X. Etiology of oncogenic fusions in 5,190 childhood cancers and its clinical and therapeutic implication. *Nat Commun.* 2023 Apr

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2024 JIF: 14.7

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23. Bertrums EJM, Smith JL, Harmon L, Ries RE, Wang YJ, Alonzo TA, Menssen AJ, Chisholm KM, Leonti AR, Tarlock K, Ostronoff F, Pogossova-Agadjanyan EL, Kaspers GJL, Hasle H, Dworzak M, Walter C, Muhlegger N, Morerio C, Pardo L, Hirsch B, Raimondi S, Cooper TM, Aplenc R, Gamis AS, Kolb EA, Farrar JE, Stirewalt D, Ma X, **Shaw TI**, Furlan SN, Brodersen LE, Loken MR, Van den Heuvel-Eibrink MM, Zwaan CM, Triche TJ, Goemans BF, Meshinchi S. Comprehensive molecular and clinical characterization of NUP98 fusions in pediatric acute myeloid leukemia. *Haematologica*. 2023 Feb 23;. doi: 10.3324/haematol.2022.281653. **2024 JIF: 8.2**
24. Farrar JE, Smith JL, Othus M, Huang BJ, Wang YC, Ries R, Hylkema T, Pogossova-Agadjanyan EL, Challa S, Leonti A, **Shaw TI**, Triche TJ Jr, Gamis AS, Aplenc R, Kolb EA, Ma X, Stirewalt DL, Alonzo TA, Meshinchi S. Long Noncoding RNA Expression Independently Predicts Outcome in Pediatric Acute Myeloid Leukemia. *J Clin Oncol*. 2023 Feb 16;:JCO2201114. doi: 10.1200/JCO.22.01114. **2024 JIF: 42.1**
25. Kamens JL, Dang J, **Shaw TI**, Gout AM, Newman S, Hagiwara K, Smith AMR, Obermayer AN, Aldridge S, Ma J, Zhang Y, Wu G, Leventaki V, Santiago T, Raimondi S, Nakitandwe J, Pappo A, Li C, Zhang J, Gruber TA. Malignant Progression of an Ancestral Bone Marrow Clone Harboring a CIC-NUTM2A Fusion in Isolated Myeloid Sarcoma. *Mol Cancer Res*. 2023 Jan 13;:OF1-OF6. doi: 10.1158/1541-7786.MCR-22-0544. **2024 JIF: 4.1**

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27. Obermayer A, Dong L, Hu Q, Golden M, Noble JD, Rodriguez P, Robinson TJ, Teng M, Tan AC, **Shaw TI***. DRPPM-EASY: A Web-Based Framework for Integrative Analysis of Multi-Omics Cancer Datasets. *Biology (Basel)*. 2022 Feb 8;11(2):260. doi: 10.3390/biology11020260. PMID: 35205126 PMCID: PMC8869715. **2024 JIF: 3.6**
28. Chen, PC., Han, X., **Shaw, TI.**, Jiao, Y., Teubner, BJW., Eddins, D., Niu, M., Bai, B., Mertz, J., Li, Y., Cho, JH., Wang, X., Wu, Z., Mancieri, A., Earls, LR., Stewart, E., Vogel, P., Beach, TG., Dyer, MA., Smeyne, RJ., Zakharnko, SS., Yu, G., Peng, J. Neuronal expression of Alzheimer's disease-associated U1-70K cleavage product causes splicing dysfunction and cognitive impairment in mice. *Nature Aging*. 2022. 2, 923–940 <https://doi.org/10.1038/s43587-022-00290-0> **2024 JIF: 17**
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Czerniecki B, Forsyth P, Koya RC, Ruffell B, Cubillos-Ruiz JR, Munn DH, **Shaw TI**, Conejo-Garcia JR, Rodriguez PC. Ablation of the endoplasmic reticulum stress kinase PERK induces paraptosis and type I interferon to promote anti-tumor T cell responses. *Cancer Cell*. 2022 Oct 10;40(10):1145-1160.e9. doi: 10.1016/j.ccell.2022.08.016. Epub 2022 Sep 22. PMID: 36150390; PMCID: PMC9561067. **2024 JIF: 48.8**

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32. Yu X, Cen L, Chen YA, Markowitz J, **Shaw TI**, Tsai KY, Conejo-Garcia JR, Wang X. Tumor Expression Quantitative Trait Methylation Screening Reveals Distinct CpG Panels for Deconvolving Cancer Immune Signatures. *Cancer Res*. 2022 May 3;82(9):1724-1735. doi: 10.1158/0008-5472.CAN-21-3113. PMID: 35176128; PMCID: PMC9064917. **2024 JIF: 12.5**

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impaired ribonucleotide excision repair. *Neuron*. 2021 Dec 15;109(24):3962-3979.e6. doi: 10.1016/j.neuron.2021.09.040. Epub 2021 Oct 15. PMID: 34655526; PMCID: PMC8686690. **2024 JIF: 14.7**

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Regional and National Presentations

Invited Oral Presentation:

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| February 2026 | “Alternative Splicing in Cancer.” Multi-omics Seminar. St Jude Children’s Research Hospital. Memphis, Tennessee. |
| December 2025 | “Introduction to Computational Immuno-Oncology.” International Society of Computational Biology Regional Southeast ISCB RSG SE 2025. St Pete, Florida |
| November 2025 | “Discovering Therapeutic Targets Through RNA Splicing Alterations.” Topics in Cancer Seminar Series. University of Florida, Gainesville, Florida. |
| August 2025 | “ShinyEvents: Harmonizing Longitudinal Data for Real World Survival Estimation.” International Conference on Intelligent Biology and Medicine, 13 th International Conference on Intelligent Biology and Medicine ICIBM 2025. Columbus, Ohio. |
| October 2024 | “Analysis of clonal heterogeneity within paired primary and metastatic tumor samples of patients with solid tumors and implications for neoantigen-based personalized cancer vaccines.” ORIEN Annual Retreat. Tampa, Florida. |
| September 2024 | “Developing the infrastructure for systems immuno-oncology” Immuno-Oncology Program Research in Progress (RIT), Moffitt Cancer Center, Tampa, Florida. |
| September 2023 | “Computational Tools that Enhance Collaborative Research: Leveraging Data from the ORIEN AVATAR Program” |

Immuno-Oncology Program Research in Progress (RIT),
Moffitt Cancer Center, Tampa, Florida.

- March 2023 **“Developing a Context-Relevant Digital Twin Framework for Rare Malignancies.”** ORIEN Annual Retreat. Salt Lake City, Utah.
- December 2019 **“USP7 heterozygous loss-of-function affects T-cell differentiation in pediatric T-ALL.”** International Society of Computational Biology Regional Southeast ISCB RSG SE. St Pete, Florida

Poster Presentations/Scientific Abstracts

1. **Timothy Shaw**, Melanie Mediavilla Varela, Alyssa Obermayer, Rocco English, Xiaoqing Yu, Jose Alejandro-Guevara, Jorge Mansilla-Soto, Jose Conejo-Garcia, Paulo Rodriguez, Eva Sahakian, Javier Pinilla-Ibarz, Julio Chavez. Dynamic changes in the bone marrow niche following CD19-targeted CAR-T cell infusion in diffuse large B cell lymphoma (DLBCL). ASH Annual Meeting. 2025 (**Poster**).
2. Alyssa Obermayer (Staff from my lab), **Timothy Shaw**, Darwin Chang, Joshua Davis, Jamie K Teer, Xiaoqing Yu, Xuefeng Wang, Dale Hedges, Aik Choon Tan, Robert Rounbehler, Abdul Rafah Naqash, Margaret Gatti-Mays, Aakrosh Ratan, Martin McCarter, Howard Colman, Igor Puzanov, Susanne Arnold, Michelle Churchman, Patrick Hwu, William Dalton, George Weiner, Jose Conejo-Garcia, Paulo C Rodriguez, Bodour Salhia, Ahmad A Tarhini. Analysis of clonal heterogeneity within paired primary and metastatic tumor samples of patients with solid tumors and implications for neoantigen-based personalized cancer vaccines. AACR 2024. (**Staff Oral Presentation**)
3. Ahmad A Tarhini, Alyssa Obermayer, Sandra J Lee, William A LaFramboise, F Stephen Hodi, Arivarasan D Karunamurthy, Patrick Hwu, Dung-tsa Chen, Issam El Naqa, Howard Streicher, Walter J Storkus, Lisa H Butterfield, John M Kirkwood, **Timothy I Shaw**. An integrative immune signature of complementary circulating and tumoral biomarkers maximizes the predictive power of adjuvant immunotherapeutic benefits for high-risk melanoma. JITC. 2023 (**Poster**).
4. **Timothy I Shaw**, Darwin Chang, Alyssa Obermayer, Jamie Teer, Xiaoqing Yu, Xuefeng Wang, Dale Hedges, Aik Choon Tan, Abdul Rafah Naqash, Margaret E Gatti-Mays, Aakrosh Ratan, Martin D McCarter, John Carpten, Howard Colman, Igor Puzanov, Susanne M Arnold, Michelle Churchman, Patrick Hwu, William Dalton, George J Weiner, Jose Conejo-Garcia, Paulo C Rodriguez, Ahmad A Tarhini. Genetic heterogeneity between paired primary and metastatic solid tumors and implications for neoantigen-based personalized cancer vaccines. SITC. 2023. (**Poster**)
5. **Timothy Shaw**, Alyssa Obermayer, Dalia Ercan, Paul Stewart, Jad Chahoud, Peter Johnstone, Philippe Spiess, Steven Eschrich, Daniel Grass. INTEGRATIVE MULTI-OMICS PROFILING IN PENILE SQUAMOUS CELL CARCINOMA. AUA. 2023. (**Poster/Oral**)
6. **Timothy I Shaw**, Darwin Chang, Alyssa N Obermayer, Dale Hedges, Aik-choon Tan, Abdul Rafah Naqash, Margaret Elena Gatti-Mays, Aakrosh Ratan, Martin McCarter, John D Carpten, Howard Colman, Igor Puzanov, Susanne M Arnold, Michelle L Churchman, Patrick Hwu, William S Dalton, George J Weiner, Jose Conejo-Garcia, Paulo Rodriguez, Ahmad A Tarhini. Genetic heterogeneity between paired primary and metastatic solid tumors and implications for neoantigen-based personalized cancer vaccines. ASCO. 2023. (**Poster**)

7. **Timothy I. Shaw**, Xin Zhou, Jian Wang, Samuel W. Brady, Liqing Tian, Alexander Gout, Elizabeth Wickman, Jessica Wagner, Xinyu von Buttlar, Xiaotu Ma, Giedre Krenciute, Christopher DeRenzo, Paulina Velasquez, Jiyang Yu, Stephen Gottschalk, Jinghui Zhang. Associating genetic lesions with the immune signatures in childhood cancers. PQG @ Boston. 2019 Dec 3-5th. (Stellar Abstract Award)
8. **Timothy I. Shaw**, Yuxin Li, Xian Han, Xiaojun Sun, Xinyu Von Buttlar, Ji-hoon Cho, Xusheng Wang, Rain Sun, Scott Olsen, Geoffrey Neale, John Easton, Gang Wu, Yiping Fan, #Ping-Chung Chen, #Junmin Peng. A case study of RNA sequencing protocols and their ability to detect splice junctions and intron retention events in Alzheimer disease. Poster Presentation at Cold Spring Harbor Laboratory Meeting: Neurodegenerative Diseases: Biology & Therapeutics. 2018 Nov 28-Dec 2nd.
9. **Timothy I. Shaw**. “To poly (A) or not to poly (A): a story of uncaptured splicing events.” Invited Presentation at the Institute of Epidemiology and Preventive Medicine. National Taiwan University, Taiwan. April 2018.
10. **Timothy Shaw**, Stanley Pounds, Xueyuan Cao, Gustavo Palacios, Sherrie Perkins, Marsha C Kinney, Jacqueline M Kraveka, Thomas Gross, John Sandlund, Charles Mullighan, Megan Lim, Vasiliki Leventaki. An integrated analysis of DNA methylation and transcriptome profiles identifies two distinct groups of pediatric ALK-positive anaplastic large cell lymphoma. *Modern Pathology*. 2018/3/1. Vol 3. Page 552-552. (Poster Presentation at United States and Canada Academy of Pathology 2018)
11. **Timothy Shaw**, Hong Wang, Ji-hoon Cho, Yuxin Li, Xusheng Wang, Suiping Zhou, Alexander Diaz, Chunxu Qu, Yiping Fan, Suzanne J Baker, Jinghui Zhang, Junmin Peng. JUMPk Algorithm for Identifying Activated Kinase Modules in a Signaling Network. Poster Presentation @ American Society of Mass Spectrometry 2016.
12. **Timothy I. Shaw**, Amir Manzour, Yingfeng Wang, Russell Malmberg, Liming Cai+. Analyzing modular RNA structure reveals low global structural entropy in microRNA sequence. *Proceedings of Computational Systems Bioinformatics Conference (CSB2010)*, Vol. 9, p. 146-155. (Talk at CSB2010)