Isaac B. Michael, PhD Curriculum Vitae

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EXECUTIVE PROFILE

Mathematical statistician and program director with dual training in applied statistics (MApStat, LSU, 4.0 GPA) and pure mathematics (PhD, Baylor, 4.0 GPA). Blend of federal survey methodology, advanced statistical modeling, and STEM program leadership.

At the Centers for Disease Control and Prevention (CDC), lead national statistical development and automation for the Pregnancy Risk Assessment Monitoring System (PRAMS), with hands-on responsibility for survey weighting, nonresponse bias adjustment, and quality assurance for sites representing the majority of U.S. live births. Experienced in SAS, R, Python, and SQL with a strong focus on reproducible pipelines, automation, and auditable data products.

At Louisiana State University (LSU), direct the Virtual Math Research Circle (VMRC)—a year-round, research-first STEM program for high-school students—overseeing strategy, funding, operations, web presence, and curriculum. Expanded the program from a summer-only initiative into a multi-term research pipeline with national and growing international reach, backed by multi-year AMS Epsilon funding and strategic partnerships.

Areas of strength include survey design and weighting, regression modeling (linear/GLM, LASSO, ridge), tree-based methods (random forests, gradient boosting), structural equation modeling, experimental design, data visualization, and AI-assisted analytics, coupled with a strong record of peer-reviewed publications in analysis, operator theory, and applied health research.

KEY ACCOMPLISHMENTS

- **National PRAMS Weighting Leadership (CDC)**
  Co-directed the full data-weighting cycle for two national PRAMS birth cohorts (2022–2023), serving as a primary contact for **50 sites** (46 states, 2 cities, 2 territories). Weighted data for more than half of all sites in each cohort, supported nonresponse bias analysis, and helped modernize response-rate policy.
- **Survey Methodology & Bias Correction**
  Designed pre-weighting validation checks, sampling verification procedures, and nonresponse adjustment models for maternal and child health data, contributing to federal guidance and program modernization.
- **Automation & Reproducibility**
  Built modular SAS/R/Python programs for frame duplicate detection, birth file

comparisons, twin record validation, reporting, and QA—reducing manual workload and improving reproducibility across jurisdictions.

- **Program Director, VMRC (LSU)**
  Led the evolution of the LSU **Virtual Math Research Circle (VMRC)** from a summer program into a year-round research initiative with spring, summer, and fall terms. Directed **18+ research mentors/contractors** and over **100 students** across multiple cohorts and institutions.

- **Grants, Funding & Governance**
  Secured recurring **AMS Epsilon** grants (2022–2025) and implemented need-based funding rubrics and financial tracking for VMRC, ensuring timely stipends, compliance, and sustainability.

- **Web & Systems Modernization (VMRC)**
  Fully redesigned the VMRC web presence in HTML/CSS/JS, including the Welcome page, session archives, research topic pages, FAQ & Contact, and Policies & Procedures. Overhauled application and HR workflows and integrated LSU systems to reduce redundancy.

- **International Expansion & Partnerships**
  Drafted and negotiated a memorandum of understanding with a partner school in China, including a simple budget that structured a **90% profit-share** agreement within LSU HR constraints.

- **STEM Education Impact (BEE Program)**
  As Head Supervisor for LSU's Bridge to Engineering Excellence (BEE) program, led five sections serving 150+ incoming engineering students, with a documented **+28.56 average pre- to post-test gain** and 96% of students improving.

- **Research & Publication Record**
  Published in leading mathematics and applied journals (Journal of Differential Equations, Mathematical Inequalities and Applications, CUBO, Integral Equations and Operator Theory, Australasian Journal of Combinatorics, and European Journal of Investigation in Health, Psychology and Education) and contributed a research monograph chapter with Birkhäuser/Springer.

PROFESSIONAL EXPERIENCE

Mathematical Statistician

Centers for Disease Control and Prevention (CDC), Division of Reproductive Health
Atlanta, GA | Jun 2023 – Present | On-site

Lead statistical development and automation for PRAMS, focusing on survey weighting, nonresponse bias analysis, and data quality improvement for maternal and infant health surveillance.

- **National Weighting & Site Support**
    - Co-led the data weighting process for **2022 and 2023 PRAMS birth cohorts**, covering sites that represent ~81% of all U.S. live births.
    - Weighted data for more than half of all PRAMS sites in each cohort and served as an informal lead for weighting activities, while formally co-leading with colleagues.
    - Provided direct technical support to **50 PRAMS sites** (46 states, 2 cities, 2 territories) on stratification, sample design, and weight construction.
- **Survey Methodology & Nonresponse Bias**
    - Developed and refined stratification logic, sampling verification checks, and nonresponse adjustment models.
    - Supported analyses and guidance that contributed to the removal of a rigid response-rate threshold in favor of nonresponse bias evaluation.
- **Automation, QA & Infrastructure**
    - Built SAS programs for frame duplicate detection, birth file comparisons, and twin record validation.
    - Designed automated pre-weighting diagnostics and reproducible reporting templates, drastically reducing manual QA and review time.
- **Technical Consulting & Training**
    - Served as a primary statistical resource for state teams and internal CDC partners—troubleshooting survey design, data processing, and modeling questions.
    - Led and co-led trainings on PRAMS weighting, sampling verification, and AI-assisted analytics.
- **Publications & Presentations**
    - Co-authored peer-reviewed work and presented PRAMS weighting and methodology innovations at national meetings, including PRAMS national grantee sessions and CDC webinars.

Program Director — Virtual Math Research Circle (VMRC)

Louisiana State University – Gordon A. Cain Center for STEM Literacy
Baton Rouge, LA | May 2020 – Present | Remote

Direct strategy, finances, operations, and academic design for the **Virtual Math Research Circle (VMRC)**—LSU's advanced online mathematics research program for high-school students (and related extension programs).

- **Program Strategy & Expansion**
    - Transitioned VMRC from a **summer-only** initiative to a **year-round research program** with spring, summer, and fall offerings.
    - Designed the Research Extension pathway and coordinated collaborations with university mathematicians and research mentors nationwide.
- **Governance, Policy & Student Conduct**
    - Authored the **VMRC Student Code of Conduct** and comprehensive **Policies & Procedures** covering governance, enrollment/refunds, attendance, technology, and reporting/appeals.
    - Ensured alignment with LSU policies and integrated VMRC guidelines into the official program website.
- **Web Development & Public Communication**
    - Completely overhauled the **VMRC website** (Welcome, session archives, research topics, FAQ & Contact, Policies & Procedures) using HTML/CSS/JS.
    - Implemented structured research project pages, mentor bios, and public archives that support transparency, recruitment, and external reference.
- **Applications, Forms & Automation**
    - Redesigned the **VMRC application system**, including Formstack and LSU HR integrations, to streamline student and staff intake.
    - Created standardized **VMRC email templates** (interest, application updates, offers, onboarding, mentor communications), enabling automated campaigns and consistent messaging.
    - Developed a **Python script** to generate mass personalized, signed completion certificates for students.
- **Outreach, Marketing & Contact Lists**
    - Curated and maintained **large-scale contact lists** (100K+ teachers, schools, departments, and prior participants) for targeted outreach.
    - Negotiated discounted contact-list purchases with vendors and managed mass email campaigns to promote VMRC domestically and abroad.
- **Internationalization & Partnerships**

    - Drafted and negotiated a **memorandum of understanding with a partner school in China**, including a simple operating budget and profit-sharing model (~90% profit share back to VMRC) consistent with LSU HR and payroll rules.

- **Funding & Financial Stewardship**
    - Secured multi-year **AMS Epsilon Young Scholars Program grants (2022–Present)**.
    - Designed need-based funding rubrics, tracked stipends and payroll in partnership with LSU HR and finance, and produced annual reports for grantors.
- **Instruction, Mentorship & Outcomes**
    - Directed and taught research groups across advanced topics (graph theory, combinatorics, probability, optimization, cryptography, survey methods, etc.).
    - Coordinated student participation in **LSU Discover Day** and other research showcases; supported LaTeX manuscript writing and conference-style presentations.

Head Supervisor — Bridge to Engineering Excellence (BEE)

LSU College of Engineering
Baton Rouge, LA | May 2020 – Present (Seasonal) | Remote

Lead summer math operations for **BEE**, LSU's flagship bridge program preparing incoming engineers for Calculus.

- Supervise graduate teaching assistants and coordinate instruction across **five sections** (156 students in 2025).
- Implemented a **dual-grading system** to ensure fairness and comparability across sections.
- Achieved a **+28.56 average pre- to post-test score gain**, with **96% of students improving**.
- Negotiated discounted **WebAssign** access and automated grading workflows, reducing manual grading load and improving auditability.
- Coordinated ed-tech provisioning (Moodle, Zoom, GoodNotes) and SSO/access to ensure day-one readiness.

Mathematical Statistician

U.S. Census Bureau – Decennial Statistical Studies Division
Remote (based in Baton Rouge, LA) | Aug 2022 – Jun 2023

Contributed to large-scale federal research on undercounted populations and U.S. migration patterns.

- Conducted **Big Data analysis** using SAS, SQL, Amazon Redshift, and DBVisualizer on one of the largest federal datasets in the U.S.
- Produced cross-tabulations and analytic products to support equity-focused census reporting and research on historically undercounted groups.
- Participated in a national migration study using Census microdata.
- Completed formal **Introduction to Survey Sampling** training (simple random, stratified, and cluster sampling).
- Performed methodological and QA reviews on official statistical publications for accuracy and compliance.

Postdoctoral Researcher — Department of Mathematics

Louisiana State University
Baton Rouge, LA | Jun 2019 – Aug 2022

Conducted research in analysis, operator theory, spectral theory, and partial differential equations; taught advanced undergraduate and graduate courses.

- Published multiple peer-reviewed articles on **Hardy-type inequalities, Birman–Hardy–Rellich inequalities, operator theory, and spectral theory**.
- Delivered invited and contributed talks at international conferences and seminars (IWOTA, SIAM, JMM, Baylor Analysis Fest, etc.).
- Taught courses including Mathematical Statistics, Calculus I–II, and seminar courses; supervised student projects and seminars.
- Led and contributed to STEM outreach programs (earlier LSU math and research programs that now align with VMRC branding).

Graduate Fellow — Department of Mathematics

Baylor University
Waco, TX | Jul 2014 – Aug 2019

Balanced advanced mathematical research with undergraduate teaching during MS and PhD studies.

- Conducted research in **analysis, operator theory, PDEs, graph theory, combinatorics, and functional analysis**, culminating in a doctoral dissertation on Birman–Hardy–Rellich-type inequalities.

- Taught a range of undergraduate mathematics courses (Business Calculus, Calculus I, Precalculus), including syllabus design, exams, and grading.
- Provided extensive office-hour support and one-on-one tutoring in calculus and applied mathematics.

CONSULTING & ADVISORY ROLES

Statistical Consultant

Virginia Department of Health – Comprehensive Harm Reduction (CHR) Program
Atlanta, GA (remote) | Oct 2024 – Present

- Provide statistical consulting and data analysis to inform harm-reduction initiatives.
- Support validation, visualization, and reporting for CHR program metrics and outcomes.

Internal Statistical Advisory & Mentoring (CDC SAG Mentorship Program)

CDC – Statistical Advisory Group (SAG) | 2023–2024

- Served as a mentor in CDC's SAG mentorship pilot, guiding mentees across projects in global health, epidemiology, and survey methodology.
- Provided coaching on modeling strategies, study design, and reproducible workflows using SAS, R, and Python.

MENTORSHIP & TRAINING HIGHLIGHTS

- **Virtual Math Research Circle (VMRC)** – Designed and led research teams of high-school students on topics including graph theory, RSA cryptography, Markov chains and machine learning, numerical shape optimization, survey weighting and nonresponse adjustment, and more.
- **Undergraduate Research Mentorship (LSU)** – Guided undergraduate projects in analysis and applied mathematics, including presentations at LSU Discover Day.
- **Capacity Building for PRAMS Sites (CDC)** – Delivered hands-on SAS trainings for generating weighted estimates, cross-tabulations, and QA diagnostics; provided tailored troubleshooting for state teams.
- **BEE & STEM Bridge Programs (LSU)** – Mentored incoming engineering students at scale, emphasizing quantitative skills, study strategies, and equity in access to STEM pathways.

GRANTS & FUNDING

- **AMS Epsilon Young Scholars Program Grant**
  American Mathematical Society | 2022 – Present
    - Awarded annually in support of the **Virtual Math Research Circle (VMRC)**.
    - Funds student scholarships and program expansion; VMRC has secured consecutive awards across multiple cycles.
- **Graduate Student Travel Awards**
  Baylor University | 2017–2018
    - Supported travel and lodging for invited and contributed talks at national and regional mathematics conferences.
- **Other Small Grants & Internal Support**
    - Internal support from LSU and partner departments for Discover Day participation, VMRC program materials, and outreach events.

AWARDS & HONORS

- Competitive **graduate fellowships and travel grants** at Baylor University.
- Recognition for teaching excellence and outreach contributions at LSU and Baylor (seminar series, STEM programs).
- Multiple internal acknowledgments at CDC for leadership in PRAMS weighting, automation proposals, and mentorship.

PUBLICATIONS

Journal Articles

1. **Michael, I. B.**, Gesztesy, F., Littlejohn, L., & Pang, M. M. H. (2024). *Extended power weighted Rellich-type inequalities with logarithmic refinements.* Yokohama Publishers, 9(1), 69–91.
2. **Michael, I. B.**, Quan, D., & Gollub, E. (2023). *Preliminary validation of digital photography to assess the home food environment.* European Journal of Investigation in Health, Psychology and Education, 13(7), 1257–1268.
3. **Michael, I. B.**, Gesztesy, F., Littlejohn, L., & Pang, M. M. H. (2022). *A sequence of weighted Birman–Hardy–Rellich-type inequalities with logarithmic refinements.* Integral Equations and Operator Theory, 94(13).
4. **Michael, I. B.**, Gesztesy, F., & Pang, M. M. H. (2022). *Optimality of constants in weighted Birman–Hardy–Rellich inequalities with logarithmic refinements.* CUBO: A Mathematical Journal, 24(1), 115–165.

5. **Michael, I. B.**, Chuah, C. Y., Gesztesy, F., Littlejohn, L., Mei, T., & Pang, M. M. H. (2020). *On weighted Hardy-type inequalities.* Mathematical Inequalities and Applications, 23(2), 625–646.

6. **Michael, I. B.**, Gesztesy, F., Littlejohn, L., & Pang, M. M. H. (2019). *Radial and logarithmic refinements of Hardy's inequality.* St. Petersburg Mathematical Journal, 30, 429–436.

7. **Michael, I. B.**, Gesztesy, F., Littlejohn, L., & Wellman, R. (2018). *On Birman's sequence of Hardy–Rellich-type inequalities.* Journal of Differential Equations, 264(4), 2761–2801.

8. **Michael, I. B.**, & Sepanski, M. (2016). *Net regular signed trees.* Australasian Journal of Combinatorics, 66(2), 192–204.

Conference Proceedings

9. **Michael, I. B.**, Jones, S., & Melvin, E. (2023). *Online engineering bridge summer program created and focused on preparing students for Calculus.* In 2023 ASEE Annual Conference & Exposition.

Book Chapters

10. **Michael, I. B.**, Gesztesy, F., & Pang, M. M. H. (2022). *A new proof of the power weighted Birman–Hardy–Rellich inequalities.* In R. M. Aron, M. S. Moslehian, I. M. Spitkovsky, & H. J. Woerdeman (Eds.), *Operator and Norm Inequalities and Related Topics* (Trends in Mathematics, pp. 577–600). Birkhäuser/Springer.

SELECTED TALKS & PRESENTATIONS

- **Data Weighting Issues Overview for PRAMS Sites**, CDC PRAMS National Grantee Meeting (national webinar), 2024.
- **PRAMS Strategic Modernization & Response-Rate Policy Proposal**, PRAMS Team Retreat, CDC, 2024.
- **Program Director Remarks and Research Coordination**, LSU Discover Day Undergraduate Research Conference, multiple years.
- **Optimality of Birman–Hardy–Rellich-Type Inequalities**, Baylor Analysis Fest, 2022; LSU Spectral Theory Seminar, 2022.
- **Numerous additional talks** at IWOTA, Joint Mathematics Meetings (JMM), SIAM meetings, university colloquia, and research seminars (2015–2022).

TRAINING & PROFESSIONAL DEVELOPMENT

- **TensorFlow for Deep Learning (Udacity)** – Neural networks, CNNs, forecasting, and automation.

- **Advanced MLOps (Databricks Academy)** – ML lifecycle, deployment, and scalability on enterprise platforms.
- **Scikit-learn Foundations (Great Learning)** – Classification, regression, clustering models in Python.
- **Google Gemini + BigQuery ML (Google Cloud)** – AI-assisted SQL and predictive modeling.
- **Data Pipelines with Delta Live Tables (Databricks Academy)** – ETL with Delta Live Tables, Spark SQL, Python.
- **Data Weighting System Training (CDC PRAMS)** – Multi-month training on PRAMS weighting infrastructure, automation, QA, and bias correction.
- **Sampling Verification Training (CDC PRAMS)** – Stratification logic, ratio-class adjustments, and audit-ready verification.
- **Data Visualization Using SAS ODS Graphics (SAS)** – Publication-quality statistical graphics.
- **Introduction to Survey Sampling (U.S. Census Bureau)** – Design and estimation for simple random, stratified, and cluster sampling.
- Numerous leadership, health-equity, and professional-development seminars through CDC and LSU.

EDUCATION

Master of Applied Statistics (MApStat), Statistics — 4.0 GPA
Louisiana State University, Baton Rouge, LA | Aug 2021 – May 2023

- Focus: **Applied statistics, regression, experimental design, and data mining.**
- Advisor: **Kevin McCarter, PhD**
- Selected Coursework: Statistical Inference; Probability & Statistics; Experimental Design I–II; Nonparametric Statistics; Regression Analysis; Statistical Data Mining; Statistical Consulting Practicum I–II; Structural Equation Modeling & Hierarchical Linear Modeling.

Ph.D., Mathematics — 4.0 GPA
Baylor University, Waco, TX | Dec 2015 – Aug 2019

- Focus: **Analysis, functional analysis, operator theory, and partial differential equations.**
- **Dissertation:** *On Birman–Hardy–Rellich-Type Inequalities*
- **Advisor:** Fritz Gesztesy, PhD
- **Co-Advisor:** Lance Littlejohn, PhD

- Selected Coursework: Real Analysis II; Differential Geometry; Compact Lie Groups; ODE Theory; Functional Analysis; Lie Theory; Operator & Spectral Theory I–II; Potential Theory; PDE Theory; Distribution Theory I–II; Calculus of Variations.

M.S., Mathematics — 4.0 GPA
Baylor University, Waco, TX | Jul 2014 – Dec 2015

- Focus: **Algebra and Topology (with supporting coursework in analysis and complex variables).**
- Selected Coursework: Graph Theory; Advanced Calculus I–II; Abstract Algebra I–II; Topology; Algebraic Topology; Rings; Additive Combinatorics; Real Analysis I; Complex Analysis; Riemann Surfaces.

B.S., Mathematics — 3.3 GPA (Institutional GPA 3.9)
Tarleton State University, Stephenville, TX | Sep 2011 – Aug 2013

- Focus: **Undergraduate mathematics and applied problem solving.**

TECHNICAL SKILLS

Statistical Programming & Data Science

- **Languages:** SAS (advanced), R (advanced), Python (advanced), SQL (basic).
- **Statistical Modeling & Methods:**
    - Linear and generalized linear models (logistic, Poisson, negative binomial).
    - Survey-weighted regression and complex survey analysis.
    - Regularized regression (LASSO / lasso regression, ridge, elastic net).
    - Tree-based and ensemble methods (decision trees, random forests, gradient boosting).
    - Time series (ARIMA and related models).
    - Nonparametric methods, rank-based tests.
    - Structural equation modeling (SEM) and hierarchical linear modeling (HLM).
    - Design of experiments, regression diagnostics, and model validation.

Machine Learning & AI

- Scikit-learn, TensorFlow, BigQuery ML, Databricks, PySpark.
- Applied use of generative AI (e.g., ChatGPT) for code generation, documentation, and QA review.

Data Engineering & BI

- ETL workflows with Delta Live Tables and Spark SQL.
- Cloud & BI tools: Google Cloud (GCP), Amazon Redshift, Tableau, Power BI, SAP BusinessObjects, SharePoint.

Productivity & Collaboration

- Microsoft 365, Google Workspace, LaTeX, Git/GitHub, RStudio, SAS Studio, DBVisualizer, VS Code.
- Experience with survey platforms (Formstack, Qualtrics), email campaign tools, and vendor contact-list systems.

PROFESSIONAL SERVICE & MEMBERSHIPS

- Member, **American Mathematical Society (AMS)**.
- Member, **Society for Industrial and Applied Mathematics (SIAM)** (past/conference engagement).
- Reviewer and informal advisor on student projects and research proposals at LSU and partner institutions.
- Participation in CDC leadership, equity, and professional-development initiatives.

REFERENCES

Public-Sector & Statistical References

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