Douglas K. Childers, Ph.D.

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👤 Summary

Ph.D. in Applied Mathematics exploring the boundaries of Linux system administration and desktop engineering via a co-learning experiment with ChatGPT. Blends academic rigor with hands-on troubleshooting, scripting, and a flair for medieval-inspired system customization.

⚙ Skills

OS: Fedora Linux, BTRFS, Sysctl, firewalld
Languages: C, R, FORTRAN, Bash, MATLAB
Tools: Git, Kvantum, QML, LaTeX, systemd
Analysis: GWAS, SNPs, ANOVA, GLM, imputation

⚗ Project: ChatGPT + Linux Apprenticeship

- Hardened Fedora KDE via sysctl tuning, BPF lockdown, secure boot recovery
- Created boot scripts & systemd services for dual-monitor, AMD GPU setup
- Customized KDE with QML splash screens, medieval UI, startup sounds
- Actively documented experimental fixes for suspected security breaches

💼 Experience

Revolution Prep
Online Math Tutor *(2025)*
Mathnasium
Lead Tutor *(2022–2024)*
Georgia Military College
Chair & Assistant Professor *(2018–2024)*
Taught and managed curriculum in math, CS, business

🎓 Education

Ph.D., Applied Mathematics (2006)
University of Alabama at Birmingham
Dissertation: Complex Dynamics

M.S., Mathematics (2001)
B.S., Mathematics (1999)
Minor: French

🏆 Awards

Educator of the Year – GMC
Best Paper – UAB StatGen
Fields Institute & GAW Fellowships
Outstanding Ph.D. Student
Phi Kappa Phi

📑 Publications (Selected)

- *Advances in Mathematics (2010):* Extended Fatou-Shishikura inequality
- *Evolution (2009):* Canonical selection gradient analysis
- *Fields Inst. Comm. (2008):* Critical points on hedgehog boundaries
- *Ergodic Theory (2006):* Wandering polygons & critical leaves