



# **CPAM Leadership Seminar**

## ***Building Human Themes & Spotighting Mathematical Motifs in Your Teaching of K-12 Mathematics*** **Francis Su, Harvey Mudd College**

**Saturday, January 29, 2022 / 2:00 PM – 5:00 PM EST**  
**Virtual Event via Zoom**

Don't miss this opportunity to spend three hours with **Francis Su**, a nationally known mathematician, author, and speaker with a passion for teaching and popularizing mathematics. This seminar is the seventeenth in the series of CPAM Leadership Seminars and is made possible by a grant from Texas Instruments. CPAM gratefully acknowledges the support of TI.

Check-in begins at 1:30 PM Eastern Standard Time with the program starting promptly at 2:00 PM Eastern Standard Time. Visit CPAM's website at <http://www.cpam.org/> for the latest information on this session and for additional copies of the registration form. **Registrations must be received by January 19, 2022.**

Dr. Su has planned a two-part seminar focusing on *Building Human Themes* and *Spotighting Mathematical Motifs*.

**Part 1: *Building Human Themes*** . . . I've been speaking much recently about broadening the purposes of mathematics to include human flourishing. We can be more effective teachers when we help our students see how mathematics connects to their basic human desires and how it builds virtues that serve them well no matter what they do in life. In this session, we'll explore practical ways to build human themes into your teaching of mathematics.

**Part 2: *Spotighting Mathematical Motifs*** . . . A motif in music, art, or literature is a recurring idea that pops up over and over again. There are mathematical motifs too and these pop up repeatedly throughout mathematics at all levels, from kindergarten through research-level mathematics. We'll discuss five of them. Sometimes teaching math can feel like a bunch of disconnected facts or standards that one must plough through. Highlighting these motifs as you teach is an important way to make the math curriculum feel more coherent.

**Dr. Francis Su** is the Benediktsson-Karwa Professor of Mathematics at Harvey Mudd College and a former president of the Mathematical Association of America. His research is in geometric combinatorics and applications to the social sciences. On a popular level, he writes about the dignity of human beings and the wonder of mathematical teaching. In 2013, he received the Haimo Award, a nationwide teaching prize for college math faculty and in 2018 he won the Halmos-Ford writing award. His work has been featured in *Quanta Magazine*, *Wired*, and the *New York Times*. He authors the popular Math Fun Facts website, <https://math.hmc.edu/funfacts/>, and is the creator of "MathFeed", the math news app. His book, ***Mathematics for Human Flourishing***, winner of the 2021 Euler Book Prize, is an inclusive vision of what math is, who it is for, and why anyone should learn it.

**Registration** can be made via PayPal by using the link to CPAM's website, [link to Registration Form](#), or by completing the registration form below and mailing it with a check to Denise I. Griffiths, CPAM Leadership Seminar Coordinator.

**See Page 2 for registration form**

**CPAM Leadership Seminar Registration Form**  
**Saturday, January 29, 2022 / 2:00 – 5:00 PM Eastern Standard Time**  
**Virtual Event via Zoom**

**Francis Su's** session will be open to a limited number of non-awardees to **attend as guests of attending CPAM members. A CPAM member may bring only one guest.** Both the CPAM member and the guest should register on the same form.

**Check the appropriate box(es).**

- \$15 - CPAM member registration fee
- \$45 - Non-member registration fee for awardees  
(This fee includes membership for the 2021-2022 school year)
- \$45 - Guest registration fee

**AWARDEE INFORMATION - Please print legibly.**

Name \_\_\_\_\_

Year & State of Award: \_\_\_\_\_

Circle: elementary or secondary.

Circle appropriate grade band:    **K-4**    **5-8**    **9-12**

Personal phone number with area code: \_\_\_\_\_

E-mail address: \_\_\_\_\_

**GUEST INFORMATION - Please print legibly.**

Name: \_\_\_\_\_

Circle appropriate grade band:    **K-4**    **5-8**    **9-12**

Personal phone number/area code: \_\_\_\_\_

E-mail address: \_\_\_\_\_

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**Please make the check(s) payable to CPAM, Inc. Mail the check(s) and a copy of the completed registration form to**

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CPAM Leadership Seminar  
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Wilmington, DE 19810

Tel: 302-475-7961  
Fax: 302-475-7971  
E-mail: [dgriffit@udel.edu](mailto:dgriffit@udel.edu)

Confirmations will be e-mailed upon receipt of registration. Requests for refunds after the registration deadline cannot be honored.

***Registrations must be received by January 19, 2022.***