



## Research for Beginning Mathematics Students

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DMS-0739412: Mentoring through  
Critical Transition Points for High  
School Students and Undergraduates



## Pre-REU

- Freshman and Sophomores with at least two semesters of calculus
- Image and Signal Processing
  - signature analysis
  - automated reading
  - voice recognition
  - word recognition



## Results:

- talks/posters presented at meetings such as JMM, NCUWM, and MathFest
- 28 of the 46 who reported (80 total) did REUs the next summer, some the next two summers.
- of the 46 who reported, 43 are still in math, 1 in chemistry, and two teaching math.
- 11 went to graduate school (most are still undergraduates).



## Demographics

	08	09	10	11	12	Total
White	14	17	12	17	16	76
Afr. Amer.	3	2	4	2	1/2	11.5
Hispanic	1	0	1	0	1/2	2.5
Nat. Amer.	1	0	0	0	0	1
Other	0	1	4	1	3	9
Female	14	12	13	11	12	52
Male	5	8	8	9	8	38
Total	19	20	21	20	20	100



## **Links:**

MCTP homepage:

<http://www.math.tamu.edu/undergraduate/research/MCTP/>  
or [www.math.tamu.edu](http://www.math.tamu.edu) and click on the program of interest  
on the right hand list.

Copy of these slides: [www.math.tamu.edu/~geller](http://www.math.tamu.edu/~geller) and go  
down until you see the link.