

1942

Name Wilkins, J. Ernest, Jr.

(1923)

Negro

White Southerner

Position Graduate Student, University of Chicago

Special Field Mathematics  
Group

College University of Chicago, S. B., 1940

University University of Chicago, S. M., 1941, Ph. D., 1943.

Plan of Work:

For studies of the multiple integral problems in the calculus of variations, at the Institute for Advanced Study, Princeton, New Jersey.

Action of Fellowship Committee:

Granted \$1,500



Held five small scholarships while attending University of Chicago.

6717 Evans Avenue  
Chicago 37, Illinois

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"The First Canonical Pencil", Duke Mathematical Journal, Vol. 10 (1943)  
pp. 173-178.

"A Special Class of Surfaces in Projective Differential Geometry", Ibid.,  
pp. 667-675.

"Definitely Self-conjugate Adjoint Integral Equations", Ibid., Vol. 11  
(1944), pp. 155-166.

"Multiple Integral Problems in Parametric Form in the Calculus of Variations",  
Annals of Mathematics, Vol. 45 (1944), pp. 312-334.

"On the Growth of Solutions of Linear Differential Equations," Bulletin  
of the American Mathematical Society, Vol. 50 (1944), pp. 388-394.

"A Note on Skewness and Kurtosis", Annals of Mathematical Statistics,  
Vol. (1944), pp.

"The Contact of a Cubic Surface with a Ruled Surface", accepted by  
the American Journal of Mathematics.



WILKINS, J. ERNEST

PROFESSIONAL CAREER

Mr. Wilkins went to Tuskegee Institute to teach mathematics before completing work under fellowship. 1/13/43

1944: Teacher of Mathematics at Tuskegee Institute, Alabama from January 13, 1943 to March 17, 1944. Present position is Associate Physicist, Metallurgical Laboratory, University of Chicago.

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Graduate Student  
University of Chicago

Mathematics

An amazing person  
At 18 he is one of the high  
mathematicians of America.

Reid: "most outstanding prod student in  
math of recent years"

And in spite of precocity is  
apparently a pleasing, well balanced  
chap.

we or had top needs in math  
And here is another

This is a must

Name J. Ernest Wilkins, Jr. Field: Mathematics

Graduate Student, University of Chicago  
6717 Evans Avenue, Chicago

Plan of Work

Multiple integral problems in the calculus of variations.

Wishes to attend Institute for Advanced Study <sup>Princeton</sup> or ~~Harvard University~~ or University of Chicago, for one year beginning September 1942.

Personal Data Born Chicago, Illinois, November 1923. Age: 18  
Single.

Undergraduate Work University of Chicago, S. B. 1940.

Graduate Work University of Chicago, S. M. 1941.

Experience

Accomplishments Phi Beta Kappa.

Master's Thesis: "Derivatives of a Function of a Complex Variable"

Expects to have completed doctor's thesis by June 1942: "The Multiple Integral Problem in the Calculus of Variations in Parametric Form"

Has had scholarships at University of Chicago since 1937, ranging from \$150 to \$500 a year.

References

- Gilbert A. Bliss, University of Chicago
- Ernest P. Lane, " " "
- A. Adrian Albert, " " "
- William T. Reid, " " "
- Magnus R. Hestenes, " " "

Budget Summary

Total Amount Needed	\$1,900
From Applicant	100
From Fund	\$1,800

AMOUNT GRANTED

\$6,500

Sent to Committee

Br 44 3/6

