





- yPC; Od s%sz\ ...s @CSL^C@zb - <Sf- zC..PC^ zPC4- zzCq%srz- zCbH; P- dLCfra; g @pcc@4Cb...I C>eqfSsL - @SS^ - Yeb..CqLC^Cq zS^i
- 3bzP zPCzPCq\ -Y- ^@CC-zq- Y@C - ^@s bHG <P Y<- zS^ ..Cq z- W^ S'zb - <b~^z zb <- Y~YzC zPC X; a B>eqfSsL f- Y- 4C S'sLPzs S'zb zPC G-b^b\ S; fS 4SS%bHs~<P S'zLq zC@s%sz\ s S' @SfCqC^ fSp^ \ C^zsi
- yPC- ^- Yss ...s @b^C~sS^L rS \ ~S^W ^@[ - zY4i

á **Economics and Comparison of Natural Gas Combined Power Plant with Steam and Nuclear Power Plant**; b-φG-reC-S YybeS >reqS^L | Cevg

-

á ; b^@<z@zq S^S^L sGssb^s Hbq^C..Kq @- zCyG <PS^L, ssSz- ^zs fKy, sgb^ <b-qsCL-S@CQ  
Y^Gs>D ~Se\ C^z beGq zsb^>- ^@Lq @S^L eq<C@-qGs  
á a fCp-...zPC-ssGs\ C^z bHS^@fS@-- Y- ^@Lq-e -ssL^ \ C^zs>S^<Y@S^L zPC@CfCbe\ C^z bH  
Lq @S^L <qfCqS  
á [ -^-LC@zPCeq<~q\ C^z bHY4bq zbdq%Q ~Se\ C^z - ^@qsb-qGs

**Instructor**R^zpb@<zsb^ zb [ -^-H<z-@f^Lg

G Y|CE{  
Bf Y-zsb^ p-z^Ls= Ji{w  
[ S^PSL- ^ yC^P^bVLS- Y} ^SfCpS%  
[ C^P- ^S- YB^LS^CCp^L@^LS^CCp^L [ C^P- ^Ss

á R^zpb@<C@sz~@C^zs zb @SfCpC\ -^-H<z-@f^L eq<CssGs>S^<Y@S^L @Cbq\ - zsb^>s-4zq <SfC  
- @SfC- ^@\ bY@S^L zC^P^S ~Gs  
á R. eY\ C^z@S^<YsSfC Y^ q^S^L szq zLSS s-^P -s •Se@C Y^ q^S^L - ^@- <SfC Y^ q^S^L> S^Q  
<bqebq zS^L fS@Cbs Hbq SY-szq zsb^  
á } zS^C @qYz- 4Y C^q- \ eYs - ^@YfC @\ b^szq zsb^s zb C^P- ^<C b\ eqPC^s b^  
á dqS^C^z@<- sCsz-@Cs zb SY-szq zC eq <S- YqCCf- ^<C- ^@ b^Cz zPCbqzS- Y b^<Cezs zb  
qC Yq.bq@- eeY- zsb^s

**Graduate Teaching Assistant**f [ C^P- ^S- YB^LS^CCp^L dq <ZSC |g

G Y|CEu Qreq^L |CE\_  
Bf Y-zsb^ p-z^Ls= Jicw - ^@JilIw fre |CE\_gJicw - ^@{i|w fre |CEDgJiCw - ^@{i|w  
fG Y|CEug  
[ S^PSL- ^ yC^P^bVLS- Y} ^SfCpS%  
[ C^P- ^S- YB^LS^CCp^L@^LS^CCp^L [ C^P- ^Ss

á ; b^@<z@z.b Y4 sGssb^s Hbq [ C^P- ^S- YB^LS^CCp^L dq <ZSC |>G <P ..SZP- eeqf^S\ - zC%  
cv sz-@C^zs  
á pCeb^sSYC Hbq Lq @S^L S^@fS@-- Y- ^@zG \ -ssL^ \ C^zs - ^@- ssSz^L ..SZP zG \ QCYzC@  
Ss-Gs  
á d\ - f%o-s@ [ , yX, 3 Hbq@z- eq<Css^L - ^@@4-LLS^L sz-@C^zs <b@C

**Mentoring, Senior Design and others(2015-Present)**

á , <SfC%sb^zqfA-z@zb zPC@CfCbe\ C^z bHb^Sbq@GSL^ eqbCz Hbq~^@CqLq @- zCsz-@C^zs  
-z [ S^PSL- ^ yC^P  
á dcfS@C@\ C^zbqPSe b^ eq4Y\ QbyS^L - eeq- <PGs - ^@- ssSz@S^ sCzS^L ~e C^eCp\ C^zs  
á , S@C@S^ D ~Se\ C^z eq<~q\ C^z - ^@s-eebq@zPC\ b@C^S^L eq<Css Hbq zPCq <b^<Cezs  
á K~S@C@sz-@C^zs b^ @GSL^ <b^<Cezs>S^<Y@S^L •b.. \ G s-q\ C^z ~s^L bqf <G^ b^<Y> bq  
[ , G sC^sbq  
á [ C^zbq@sz-@C^zs qL- q@S^L zPCq <- qCq e- zPs>S^<Y@S^L ..qfS^L qC b\ \ C^@ zsb^ YzCp  
- ^@H-SZ- zS^L zPCq S^ fbYfC C^z S^ H<-Y%qfC qP eqbCz  
á dcfS@C@s-eebq @q^L <P- YC^LS^L zS Gs S^ zPCq <-qf~Y\

**AWARDS, HONORS AND FELLOWSHIPS**

Mechanical Engineering-Eng ° r l E t

^ G q= | C{  
[ SPSL- ^ yG-P^b\LS- Y} ^SfCpS%o

### **Distinguished Department Teaching Fellowship**

^ G q= | C{  
[ SPSL- ^ yG-P^b\LS- Y} ^SfCpS%o  
Ob-LPzb^>[ R

### **3 Minute Thesis (3MT), 3rd position**

^ G q= | C|  
[ SPSL- ^ yG-P^b\LS- Y} ^SfCpS%o

### **Outstanding Graduate Teaching Assistant**

^ G q= | CCE  
[ SPSL- ^ yG-P^b\LS- Y} ^SfCpS%o

### **Outstanding Alumni**

^ G q= | CEJ  
[ bq @ 4 @R'szS~zCbHyG-P^b\YL%o

## **CERTIFICATIONS**

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### **Leadership Development Series**

^ G q= | C{ QqGSc^z  
[ SPSL- ^ yG-P^b\LS- Y} ^SfCpS%o

### **The Inclusive STEM Teaching Project**

^ G q= | CJ  
} ^SfCpS%o bH, S<b^sS

### **Becoming a Successful Leader (Inclusive Leadership Training)**

^ G q= | CJ  
; , y, X ry†

### **Fundamentals of Macroscopic and Microscopic Thermodynamics**

^ G q= | C|  
} ^SfCpS%o bH[ SPSL- ^

### **Python for Everybody**

^ G q= | CE  
} ^SfCpS%o bH[ SPSL- ^

### **Machine Learning using MATLAB**

^ G q= | CE  
[ -zP..bq\ XS\ SC@

## **Proposal Experience**

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F.5 Future Investigators in NASA Earth and Space Science and Technology as

# Fundamental Investigator (FI)

yPS eqebs- YqSeb^@s zb] , r, sGR Brry , eeC^@f Gil i> |il 3dr pGc qP dqlq \ >- S Q  
S^L zb Cfe YqCH^@ \ C^z Y~S@eP%ss eq<CcsS S^ q@-<@Lq fS%se-<C Cfe Yq zb^ s%sz\ si  
Rz Hb<-sGs b^ ~^@Cqz- ^@S^LeP- sCqP- ^LC^~<Y zS^ - ^@zPCq\ bePbcSs @-q^LzPCq\ - YC^CqL%  
szbq LC><q- <S YHbq zCqCszq Y- ^@se- <Cq- sC@zPCq\ - Y\ - ^- LC\ C^zi dP- sC; P- ^LC| - zCqS Y  
fd; [ sg- q VC%zb zPS qCsG qP> b' Cq^L 4C^C' zs S^<Y@S^L eP%ss- Y- ^@ <PC S- Ysz- 4SS%  
S eqfC@zPCq\ - Y4CP- fSbq- ^@ C^fSb^ \ C^z- Ys- HZ% ] , r, s S^zCqCsz S^ ~s^L d; [ s Hbq  
zPCq\ - Y\ - ^- LC\ C^z S^ eb..Cq Cq-zp^Ss - ^@PC-z qC<zb^vszbq LC ~^@Cq<bqCs zPC S\ ebqQ  
z- ^<C bHzPS qCsG qPi yPC eqebs- Y- Yb Cfe YqCs zPC <b^<Gez bHzPCq\ bePbcSs> ..PS P- s  
ebzC^zS YS^ \ S<qlq fS%qCsG qP>- YL^S^L ..SZ ] , r, s S^zCqCsz S^ ~^@Cqz- ^@S^L ^b^D ~S  
Y4q\ szq- <z- qC Hbq\ - zS^ - ^@zC eCq z- qC Lq @S^z C C^zi yPS ..bqWS\ s zb sL^S^ < ^zY%  
S e- <z se- <Cq H zPCq\ - Y\ - ^- LC\ C^z ..SZ - ee Y- zS^s q ^LS^L Hb\ s\ - Ys- zCYS^Cs zb HQ  
z- qC | - qf Cq - ^@ Y^ - qS- qH<C \ SsS^si

## Professional Experience

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### Software Engineer

[ - qP | CEJQ - %CEI  
y- z ; b^s~Y- ^<%r CqfS^Cs>R^@S

- á R^ zPS qY> Hbq b-q <Y^z pb%Y3- ^WbHr <bzY^@> zPC Hb<-s ...s b^ 4- ^VSL - ^@" ^- ^<S Y  
sCqfS^Cs>S^<Y@S^L b-zsb-q^S^L <~szb\ Cq sCqfS^Cs - ^@@- z- C^<q^azb^i
- á dqb" <S^<%s^ rD ~C^<C k ~Cq%X- ^L-- LC frk Xg> ; b\ \ b^ 3~s^S^Cs a qC^zC@ X- ^L-- LC  
f; a 3a Xg- ^@@- z- \ - ^- LC\ C^z ...s <q- <S YHbq P- ^@S^L f- qb-s - seC-zs bH" ^- ^<S YbeQ  
Cq zb^s - ^@<-szb\ Cq S^zCq <zb^si
- á yPC ebsSb^ S^ fbyC@C^s- q^L zPC sC~<f%o ^@S^zCqf%bHs^sS^fC" ^- ^<S Y@- z- >- s ..CY  
-s C <S^z \ - ^- LC\ C^z bH@ z- 4- sCs - ^@<-szb\ Cq S^Hbq\ - zb^i

## Thing Co- r ience

# PUBLICATIONS

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## Manuscript in Submission

á , ^ , ^- %S- YB†- \ S'- zB^ bHy PCq\ bePbcSs B' G<zs b^ ] - ^b•~S@ y PCq\ - Y; b^@<Q  
zSfS%fTb~q^ - YbH bYBS@ - ^@R^zCqH<S Yr<S^<Gg  
á ] ~\ CqS- Y[ b@CS^L bHzPC ] - ^be- qS^C? Szqf4~zB^ d- zzCq^ S^ ] - ^b•~S@  
á ] ~\ CqS- Y[ b@CS^L bHzPCd- qS^C? Szqf4~zB^ d- zzCq^ S^ dP- sC; P- ^LC[ - zCqS Y? SsQ  
eCqC@ ] - ^be- qS^C

## Conference Proceedings

á rP- q\ ->} i>. , YC^>Ti f|CfJg [ b@CS^L y PCq\ bePbcSs S^ ] - ^b•~Sasi dç<CC@S^Ls

TbP^ Gi - ^@Tb- ^ [ i ; - Y@Cq B^@b..@ d qHfssbq S^ [ G-P- ^S- YB^LS^CCp^LQ^LS^CCp^L [ CQ  
<P- ^Ss> , ssb<S zC ; P- Sq - ^@ ? Sq<zbq bH} ^@CqLq @-- zC rz~@Ss> [ G-P- ^S- YB^LS^CCp^LQ  
B^LS^CCp^L [ G-P- ^Ss  
B\ - S% sz- YC^2 \ z-iC@-  
dP ^b=\_EQDuQ{J\_

**Jaclyn Johnson**

, ssb<S zCyG <PS^L d qHfssbq [ G-P- ^S- YB^LS^CCp^LQ^LS^CCp^L [ G-P- ^Ss  
B\ - S% UC^G4S2 \ z-iC@-  
dP ^b=\_EQDuQJ{{

**William J. Endres**

pSP- q@- ^@B8- 4GP OC^G d qHfssbq f [ G-P- ^S- YB^LS^CCp^LQ^LS^CCp^L [ G-P- ^Ssg^rCQ  
^Sq; - eszb^C? GsL^ d qLq \ ? Sq<zbq [ - ^~H<z- q^LwR^@-szq Yf [ Rg, qG ? Sq<zbq  
B\ - S% ..IC^@qS2 \ z-iC@-  
dP ^b=\_EQDuQIvu

**Ana Dyreson**

, ssSz- ^z d qHfssbq [ G-P- ^S- YB^LS^CCp^LQ^LS^CCp^L [ G-P- ^Ss  
B\ - S% - @%Gsb^2 \ z-iC@-  
dP ^b=\_EQDuQcu{

**Cameron Hadden**

, ssSz- ^z yG <PS^L d qHfssbq [ G-P- ^S- YB^LS^CCp^L B^LS^CCp^L [ G-P- ^Ss  
B\ - S% <\ P- @C^2 \ z-iC@-  
dP ^b=\_EQDuQ\_c{